

## **POOR LEGIBILITY**

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Comstock Mill Historical Survey Site Packet

Mill # 17 Mill Name: Woodworth Mill

AKA "NEW OPHIR"  
OR ~~CLARK~~ CARSON VALLEY  
MILL  
OR CARSON RIVER  
MILL

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## 1.0 HISTORICAL DOCUMENTATION OF MILL

### 1.1 HISTORICAL SUMMARY OF WOODWORTH MILL

The Woodworth Mill was located on the Carson River one mile south of Dayton (Ansari 1989:82) at a location where three additional mills were erected at various times. These mills were known as the Woodworth Mill, the Woodworth & Hastings Mill, the Hastings & Co. Mill, the Mosheimer Mill, the Ophir Mill, and the New Ophir Mill (Science Applications International Agency, Technology Services Company [SAIA TSC] 1994:5). The Woodworth mill was also known as the Carson River Quartz Mill, and appears under that name on Bancroft's 1862 map (Figure 1). The Hastings & Woodworth Mill, the earliest mill on the site, was reportedly the first water-powered mill on the Comstock, beginning operations in 1859. This mill contained two arrastras and was located at the site of the later Carson River Quartz Mill (Ansari 1989:81; Kelly 1862:214; Bancroft 1981:111; Rickard 1932:98).

The Carson River Quartz Mill was listed in 1862 as being owned by Joseph Woodworth, William Stewart, and John B. Winters. The site was then known as Camp Woodworth. The mill contained ten stamps, four arrastras, and two turbine wheels powered by water brought in by a 23-foot wide by 2000-foot long. The mill used Hungarian bowls and the Hayden process and processed twenty tons of ore each day from the owners' claim at the Henderson in Gold Hill. The mill employed ten men with J. B. Winters as superintendent. The mill had several outbuildings and Mr. Mosheimer had a ten stamp mill adjoining the site.

The Carson River Quartz Mill was purchased by the Ophir Company in 1863, which erected a larger mill at the site (Historical American Engineering Record [HAER] 1980). The mill was located seven and one half miles from its mine and employed 13 men (Browne 1867: 352-353). The New Ophir Mill was reported, in 1865, to have 24 stamps powered by steam (*Gold Hill Daily News* 1865:3) and was recorded on an 1866 General Land Office survey map (Figure 2) and was also on the site in 1867. It was owned by the Ophir S. M. Co. and was built in 1864 at a cost of \$75,000. This mill was water-powered and steam (?) with 24 650-pound stamps and a 10-foot-diameter turbine wheel; it contained 12 Hepburn pans, six settlers, and one agitator. It processed 40 tons each day and 1,200 tons per month.

By the 1870s, the Woodworth Mill was listed with 24 stamps, 12 pans, and a 48 ton capacity (Ansari 1989:82; Nevada State Mineralogist 1873:100; Powell 1976:67). In 1871, the mill was overhauled (*Territorial Enterprise* 1871:3). In 1873, the mill was reported to be working slimes and tailings, and contained 12 pans (*Territorial Enterprise* 1873a:3; 1873b:3). In 1874, the Woodworth Mill worked 1,279 tons with a yield of \$91,192.65 (Raymond 1874:182). The Woodworth Mill was recorded on Wheeler's 1877 map (Figure 3). The mill was the scene of an accident in 1884, when a revolving shaft crushed an employee's arm (?) after his sleeve became caught in the gears (*Reno*

*Evening Gazette* 1884:2). That same year, the mill received 1,000 cords of wood from the Nevada Wood and Flume Company (*Weekly Reno Gazette* 1884:2).

The mill may also have been the site of the marriage of Senator W. J. Westerfield to Mary R. Sims of Dayton, as their wedding was reported "at the Woodworth Mill residence" (*Nevada State Journal* 1888:2). In 1889, the Woodworth Mill still worked tailings (De Quille 1889:81).

A Historic American Engineering Record report was performed in June 1980 at this site (HAER 1980). The map from this report is shown in Figure 4.

The following tables contain the full title history of the Woodworth Mill (SAIA TSC 1993:16-22).

DATE	TYPE	GRANTOR	GRANTEE	PROPERTY'S COVERED	FILE NO.	COUNTY BOOK	COUNTY PAGE	DOCUMENT
07-23-1860	Deed	Joseph W. Hastings	John B. Winters	300 acres and mill 1/10 operated by Woodworth, Stewart, Hastings and others	10-04-1860	CCR Deeds C	215-216	Also LC/CCR Deeds A/183-195 (C-1)
07-23-1860	Ntg.	John B. Winters	Joseph W. Hastings	against 1/10 of 300+ acres	10-01-1860	CCR Deeds B	621-622	(C-2)
07-23-1860	Deed	Joseph Woodworth	Joseph W. Hastings	32 1/2 / 100 of 320 acres and quartz mill operated by Hastings Stewart and Woodworth	03-16-1861	CCR Deeds A	167	Also LC/CCR Deeds A/155-157 (C-3)
08-08-1860	Ntg.	Joseph Mosheimer Guido Kustel	Mrs. Mary Klein	against Woodworth & Hastings Quartz mill (10-stamp) and land (420 Hungarian amalgamators)	10-01-1860	CCR Deeds B	623-624	(C-4)
08-07-1860	Art. of Agreement	Quartz Mill of the Savann River Mining Company dba J. W. Hastings & Co.	Guido Kustel Joseph Mosheimer dba Mosheimer & Kustel	3 year lease for ground & water to erect and run a 10-stamp mill	10-02-1860 Carmon City Co.	CCR Deeds B	626-627	(C-5)
09-08-1860	Agreement	Mosheimer & Kustel	Joseph Forber	Forber paid \$4,000 to enlarge Mosheimer & Kustel mill aka Woodworth & Hastings mill. Conveys 1/4 of 10 stamp mill to Forber	04-24-1861	CCR Powers	104	(C-6)
09-21-1860	Deed	Joseph Woodworth	William Stewart	17 1/2 / 100 an in A/111-115	10-02-1860	CCR Deeds B	637-638	Also LC/CCR Deeds A/133-135 (C-7)



09-21-1860	Deed	Joseph Woodworth	William Stewart Joseph W. Hastings John B. Winters	30/100 ac in A/113-115	10-02-1860	CCR Deeds A	638- 629	Also LC/CCR Deeds A/113-115 (C-8)
09-21-1860	Deed	James Walsh	Joseph Woodworth	1/2 of 37 1/2 / 100 Mill and Property of Woodworth and Company (320 acres)	10-01-1860	CCR Deeds B	635- 636	Also LC/CCR Deeds A/113-115 (C-9)
09-24-1860	Mtg.	William Stuart Joseph W. Hastings John B. Winters	Joseph Woodworth	against mill and property of Woodworth & Co. (320 acres)	10-03-1860	CCR Deeds B	705- 706	(C-10)
09-24-1860	Mtg.	John B. Winters	Joseph W. Hastings	against shares of mill site (320 acres) and mill of Woodworth & Co.	10-24-1860	CCR Deeds B	703- 704	(C-11)
09-29-1860	Deed	William Stuart	John B. Winters	8-3/4 / 100 Mill of the Woodworth and Company and 220 acres	01-19-1861	CCR Deeds C	535- 536	Also LC/CCR Deeds A/209-211 (C-17)
10-29-1860 10-30-1860	Survey of Land Claim	County Surveyor	Joseph W. Hastings John B. Winters William Stuart	525.79 acres including mill house and stable	11-26-1860	CCR Deeds D	601	(C-12)
12-03-1860	Mtg.	John R. Harold John Drynan	Joseph W. Hastings	against 42 1/2 / 100 of Quartz Mill and mill site of Woodworth, Walsh & Co.	12-15-1860	CCR Deeds C	470- 471	(C-13)
12-03-1860	Deed	J. W. Hastings	John R. Harold John Drynan	42 1/2 / 100 location made by Woodworth, Walsh and Company also quartz mill now erected Deed Incumbent on mortgage	12-15-1860	CCR Deeds C	471- 472	Also LC/CCR Deeds A/191-192 (C-14)

12-03-1860	Deed	J. W. Hastings	John R. Harold John Drynan	41 1/2 / 100 of location made by Woodworth, Walsh & Company and Quartz Mill now erected (encumbered by mortgage)	01-19-1861	CCR Deeds A	372- 373	Also LC/CCR Deeds A/349-371 (C-15)
12-04-1860	Deed	Guido Kustel Joseph Monheimer	John B. Winters	1/2 "Monheimer Mill" consisting of 10 stamp Quartz Crushing Mill and Assayators and rights granted in D/626	12-12-1860	CCR Deeds A	695	Also LC/CCR Deeds A/293-295 (C-16)
01-01-1861	Deed or Trust	John R. Harold	John Drynan	1/2 of 42 1/2 / 100 of mill and mill site formerly owned by Woodworth, Walsh & Co.	01-05-1861	CCR Deeds C	502- 504	(C-18)
01-01-1861	Mtg.	John R. Harold	John Drynan	1/2 of 42 1/2 / 100 of mill and mill site formerly owned by Woodworth, Walsh & Co.	03-19-1861	CCR Mtg. A	657- 658	(C-19)
05-01-1861	Mtg.	Joseph Woodworth	John Drynan	42 1/2 / 100 of mill site location made by Woodworth, Walsh & Co.	05-20-1861	CCR Deeds C	726- 727	(C-20)
05-01-1861	Mtg.	Joseph Woodworth	John Drynan	42 1/2 / 100 of mill site location made by Woodworth, Walsh & Co.	05-20-1861	CCR Mtg. A	100	(C-21)
05-20-1861	Satisf- action	John Drynan		notation in margin regarding satisfaction of D/T as CCR Mtg. A/57		CCR Mtg. A	657	(C-19)
03-01-1862	Deed	John B. Winters	William Stewart	18-3/4 / 100 Woodworth & Walsh location	03-04-1862	Deeds A	601- 602	(C-22)
01-13-1863	Deed	John B. Winters William Stuart Joseph Woodworth	Ophir Silver Mining Company (CA Corp.)	525.79 acres and Quartz Mill	02-04-1863	Deeds A	683- 684	(C-23)

09-12-1870	Deed	L. F. Drexler	W. S. Hobart	1/2 Woodworth Mill + 325 acres	09-12-1870	Deeds G	069-071	(C-23)
09-12-1870	Deed	W. S. Hobart	John W. Mackay J.G. Fair	1/2 tailings carried by claim 1/2 Woodworth Mill and 325 acres (intended as mortgage according to G/484)	09-12-1870	Deeds G	071-072	(C-24)
01-06-1872	Deed	John W. Mackay James G. Fair	W. S. Hobart	1/2 525 acres and Woodworth mill	02-07-1872	Deeds G	484-486	(C-25)
12-15-1875	Deed	W. S. Hobart	Nevada Bank of San Francisco	1/2 Woodworth Mill + 325 acres (recorded at request of Wells Fargo and Company)	12-20-1875	Deeds H	284-285	(C-26)
12-21-1875	Deed	James G. Fair	Pacific Mill and Mining Company	1/2 SW 1/4 of NW 1/4 Section 26 (Parcel B) (Recorded at request of Wells Fargo Co.)	12-28-1875	Deeds H	297	(C-27)
12-22-1875	Deed	James G. Fair	Nevada Bank of San Francisco	1/2 SW 1/4 of NW 1/4 Section 26 (Parcel B) (Recorded at request of Wells Fargo Co.)	12-29-1875	Deeds H	288	(C-28)
01-02-1904	Deed	Pacific Mill and Mining Company Hobart Estate Company	W. J. Westerfield	Parcel known as Woodworth Mill property SW 1/4 of NW 1/4 Section 26 (Reference to Hastings and Company's quartz mill)	04-18-1904	Deeds H	660-662	(C-29)
01-18-1904	Deed	Louise Mackay Clarence M. Mackay	W. J. Westerfield	Parcel A in T/465 Parcel B	04-18-1904	Deeds H	663-665	(C-30)
01-21-1904	Deed	Theresa A. Delische Virginia Vanderbilt James L. Flood	W. J. Westerfield	Parcel A in T/465 Parcel B	04-18-1904	Deeds H	665-667	(C-31)

04-16-1904	Deed	W. J. Westerfield	Henry Conbelleick	Parcel A Parcel B	04-18-1904	Deeds H	667-668	(C-32)
07-05-1905	Deed	Ophir Silver Mining Company (CA Corp.)	Henry Conbelleick John Depaoli	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26	07-11-1905	Deeds O	033	(C-33)
03-11-1914	GRS Deed	Henry Conbelleick	John Depaoli	1/2 of SE 1/4 Section 27 1/2 of W 1/2 of SW 1/4 Section 26	03-26-1914	Deeds S	178	(C-34)
01-30-1915	Sale Aq.	John Depaoli	Marcello Sorani Constantino Benedetti	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 (Parcels A & B)	02-06-1915	Misc J	052-055	Document #12334 (C-35)
03-21-1918	Assignment	Constantino Benedetti	Alfred Chartz	Assigns 1/2 of J/52	03-21-1918	Misc J	490-493	(C-36)
03-21-1918	Assignment	Constantino Benedetti	Alfred Chartz	Assigns 1/2 of Parcel A	03-21-1918	Misc J	482	(C-37)
01-21-1918	Agreement	Alfred Chartz	Marcello Sorani Cesira Sorani	Assigns interest received by J/190	02-16-1918	Misc J	440-400	(C-38)
03-10-1919	Deed	Estate of John Depaoli	Marcello Sorani	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 (Parcels A & B)	03-13-1919	Deeds U	407-409	(C-39)
10-19-1943	Deed	LARA Chartz	Helen Haley Beatrice E. Chartz John M. Chartz	NE 1/4 Section 27 W 1/2 of SW 1/4 Section 26	01-10-1944	Deeds 12	517-540	Document #51035 (C-40)
01-08-1948	Deed	Helen Haley Beatrice E. Chartz John M. Chartz	Pio Quilici	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 Portion of NE 1/4 of SW 1/4 Section 26	01-21-1948	Deeds 35	213-216	Document #55304 (C-41)
07-26-1950	Deed	Pio Quilici	Mary Louise Dooling	See Deeds 18/218 348.83 acres	09-21-1950	Deeds 36	242-293	Document #58284 (C-42)

DATE	DOCUMENT	GRANTOR	GRANTEE	PROPERTY & COMMENTS	DATE	DOCUMENT	GRANTOR	GRANTEE
04-16-1904	Deed	W. J. Westerfield	Henry Combellick	Parcel A Parcel B	04-18-1904	Deeds N	647- 648	(C-42)
07-05-1905	Deed	Ophir Silver Mining Company (CA Corp.)	Henry Combellick John Depoali	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26	07-11-1905	Deeds D	033	(C-43)
03-23-1914	CBS Deed	Henry Combellick	John Depoali	1/2 of SE 1/4 Section 27 1/2 of W 1/2 of SW 1/4 Section 26	03-24-1914	Deeds S	378	(C-44)
01-10-1915	Sale Agt.	John Depoali	Marsilio Sorani Constantino Benedetti	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 (Parcel A & B)	01-04-1915	Misc J	052- 055	Document #22334 (C-45)
03-21-1918	Assign- ment	Constantino Benedetti	Alfred Chartz	Assigns 1/2 of J/52	01-23-1918	Misc J	490- 493	(C-46)
03-21-1918	Assign- ment	Constantino Benedetti	Alfred Chartz	Assigns 1/2 of Parcel A	03-23-1918	Misc J	402-	(C-47)
03-21-1918	Agree- ment	Alfred Chartz	Marsilio Sorani Celeste Sorani	Assigns Interest received by J/490	02-15-1919	Misc J	599- 600	(C-48)
03-10-1919	Deed	Estate of John Depoali	Marsilio Sorani	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 (Parcel A & B)	03-13-1919	Deeds U	407- 409	(C-49)
10-19-1947	Deed	Emma Chartz	Helen Haley Beatrice L. Chartz John M. Chartz	NE 1/4 Section 27 W 1/2 of SW 1/4 Section 26	01-10-1944	Deeds J2	537- 540	Document #51035 (C-50)
01-08-1948	Deed	Helen Haley Beatrice E. Chartz John M. Chartz	Pio Quilici	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 Portion of NE 1/4 of SW 1/4 Section 26	01-24-1948	Deeds J5	215- 218	Document #55504 (C-51)
07-26-1950	Deed	Pio Quilici	Mary Louise Darling	See Deeds 38/218 108.63 acres	08-23-1950	Deeds J4	281- 283	Document #58184 (C-52)

DATE	DOCUMENT	GRANTOR	GRANTEE	PROPERTY & COMMENTS	DATE	DOCUMENT	GRANTOR	GRANTEE
09-01-1953	Quiet Title			No useful information on file - regards 1 acre portion not next to mill				Case #3432
09-08-1953	Corr Deed	Pio Quilici	Mary Louise Darling	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 Portion of NE 1/4 of SW 1/4 Section 26	09-11-1953	Deeds J8	218- 220	Document #4413 (C-53)
02-14-1955	Deed	Mary Louise Darling Blake Darling	JohnD (sic) Winters Kathleen M. Winters	Property now known as Winters Ranch	07-03-1956	Deeds 40	278- 280	Document #70984 (C-54)
10-10-1975	Agt.	JohnD (sic) Winters Kathleen M. Winters	JohnD (sic) Winters Family Trust	All property				Not searched
11-08-1983	Deed	JohnD R. Winters and Kathleen M. Winters as co-trustees of JohnD Winters Family Trust Agreement	Winters Sunrise Properties, a NY general partnership	Winters Ranch	02-23-1984	None	None	Document #83849 (C-55)

a patent." 5B Thompson, Thompson on Real Property Sec. 2724 (1978 Replacement Volume)

The pre-emption rights do not preclude the pre-emptor from selling or otherwise disposing of the land after entry has been made. Since mortgages are not grants or conveyances, the right of a pre-emptor to mortgage his interest has been upheld.

In this light, the prepatent transfer of property by sale, lease, or mortgage appears to be a valid conveyance of an imperfect title. Thus prepatent owners should be considered "prior owners" under 42 U.S.C. 9607 (a)(2).

The title search for the Dayton millsites was performed from January through April 1992. At the time the title search was conducted, the exact location of some millsites was unknown. Subsequent ground searches of the area based on title documents and other sources, have determined the locations of the millsites. The parameters used in the title search may not fully encompass the area which was later determined to constitute the millsite. Further, the title narrative may not reflect the current assessed owners of some parcels, indicating that conveyances have occurred since the title search was conducted.

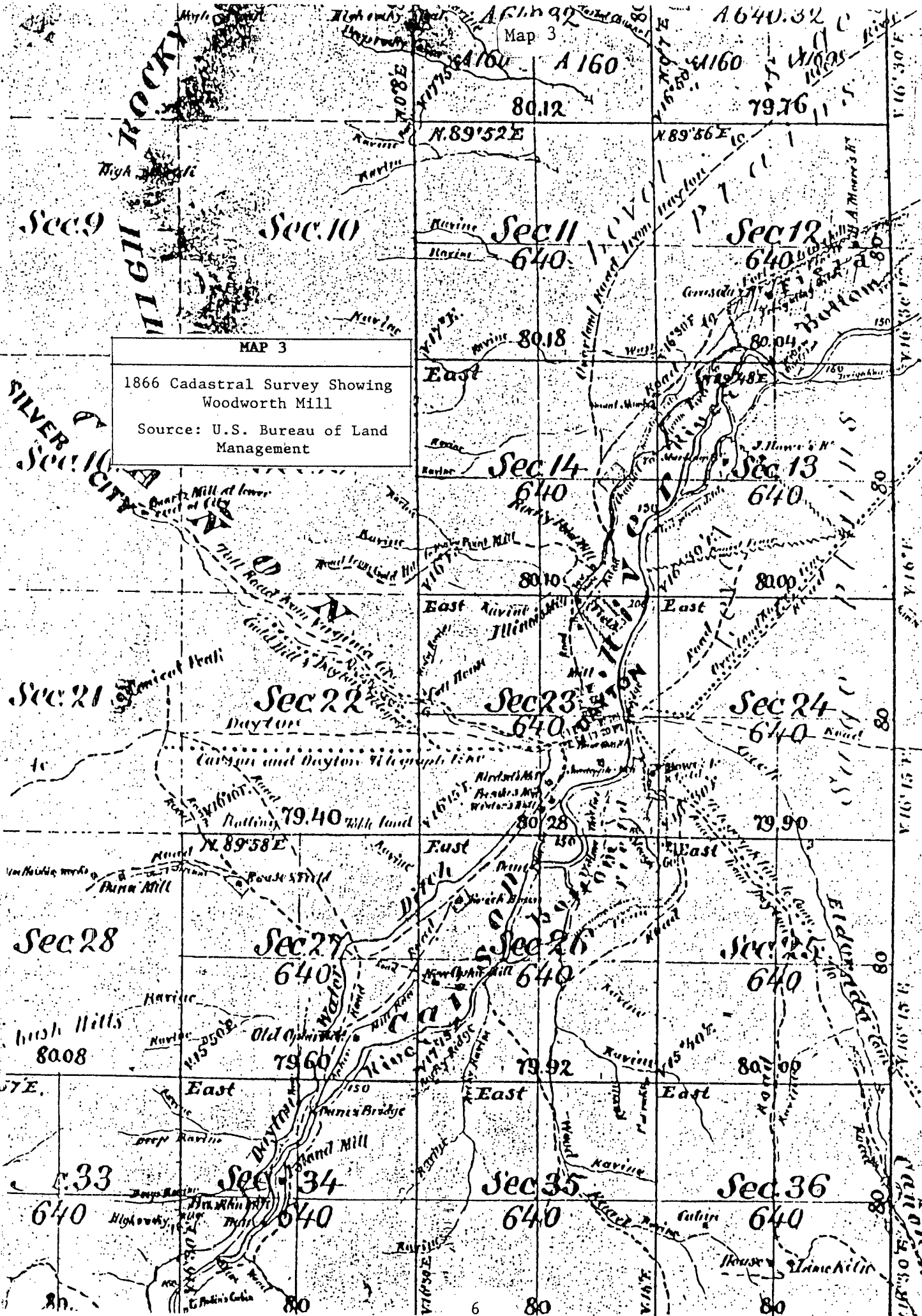
## 2.1 Woodworth Mill

The Woodworth Millsite may have contained as many as three separate mills. As discussed below, these mills were known at various times by different names, including the Woodworth Mill, the Woodworth & Hastings Mill, the Hastings & Co. Mill, the Mosheimer Mill, the Ophir Mill and the New Ophir Mill. As noted below, there are some inconsistencies and gaps in the early history of the Woodworth site.

According to the July 1865 survey made of the township by the United States Government, the mill bears N. 8 1/2° E. from the common corner of Sections 26, 27, 34 and 35, and bears S. 29° E. from the quarter corner between Sections 26 and 27, T. 16 N., R. 21 E., Mount Diablo Base Meridian (MDBM). Two structures are indicated at this site on the 1866 Cadastral Plat and the Record of Survey at Book B of Surveys, Pages 170-172 (Maps 3 and 4).

One of the first mills in the territory, the Woodworth Mill was erected by Joseph Woodworth and James Walsh in the fall of 1859 (A-1;013109). Woodworth and Walsh were either already partners with Joseph W. Hastings (Hastings), William Stewart (Stewart), and John B. Winters (Winters), or brought them in as partners soon thereafter. The exact origins of these parties' interests are unclear due to incomplete documentation and the complex nature of those transactions that are documented.

On July 23, 1860, Woodworth deeded to Hastings a 32.5% interest in 300 acres of land and a mill on that land operated by Woodworth, Stewart and Hastings (C-3). On that same day, Hastings granted Winters a 10% interest in the same property and mill (C-1), receiving a mortgage from Winters on that interest (C-2). In August of 1860, a lease was granted by the "Quartz Mill of the Carson River



MAP 3

1866 Cadastral Survey Showing  
Woodworth Mill

Source: U.S. Bureau of Land  
Management

CADASTRAL PLAT T. 16 N. R. 21 E. MDB. M

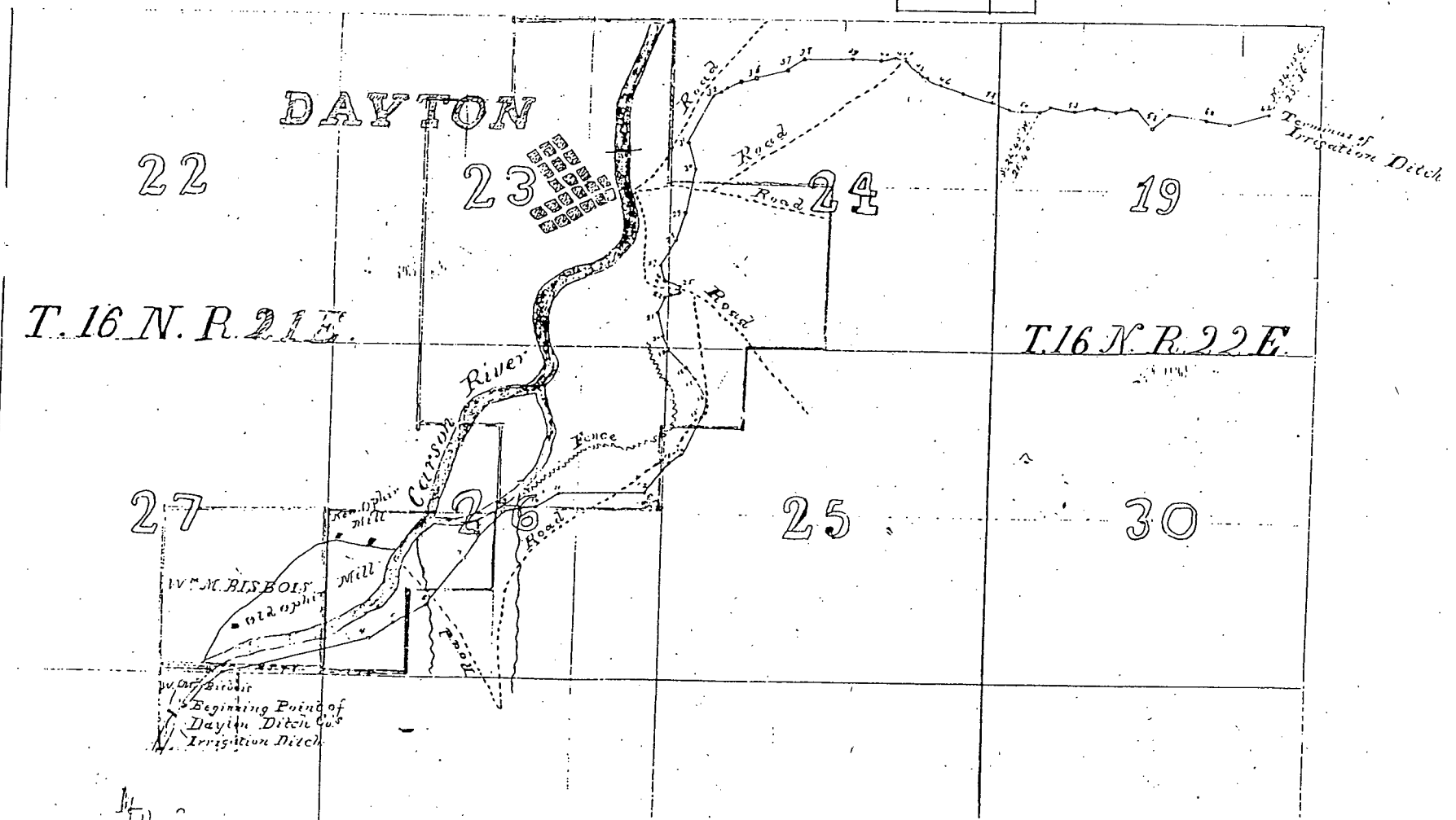
MAP 4

Record of Survey of Woodworth, Mill

Source: Lyon County Recorder

Book B  
Page 170

Map 4



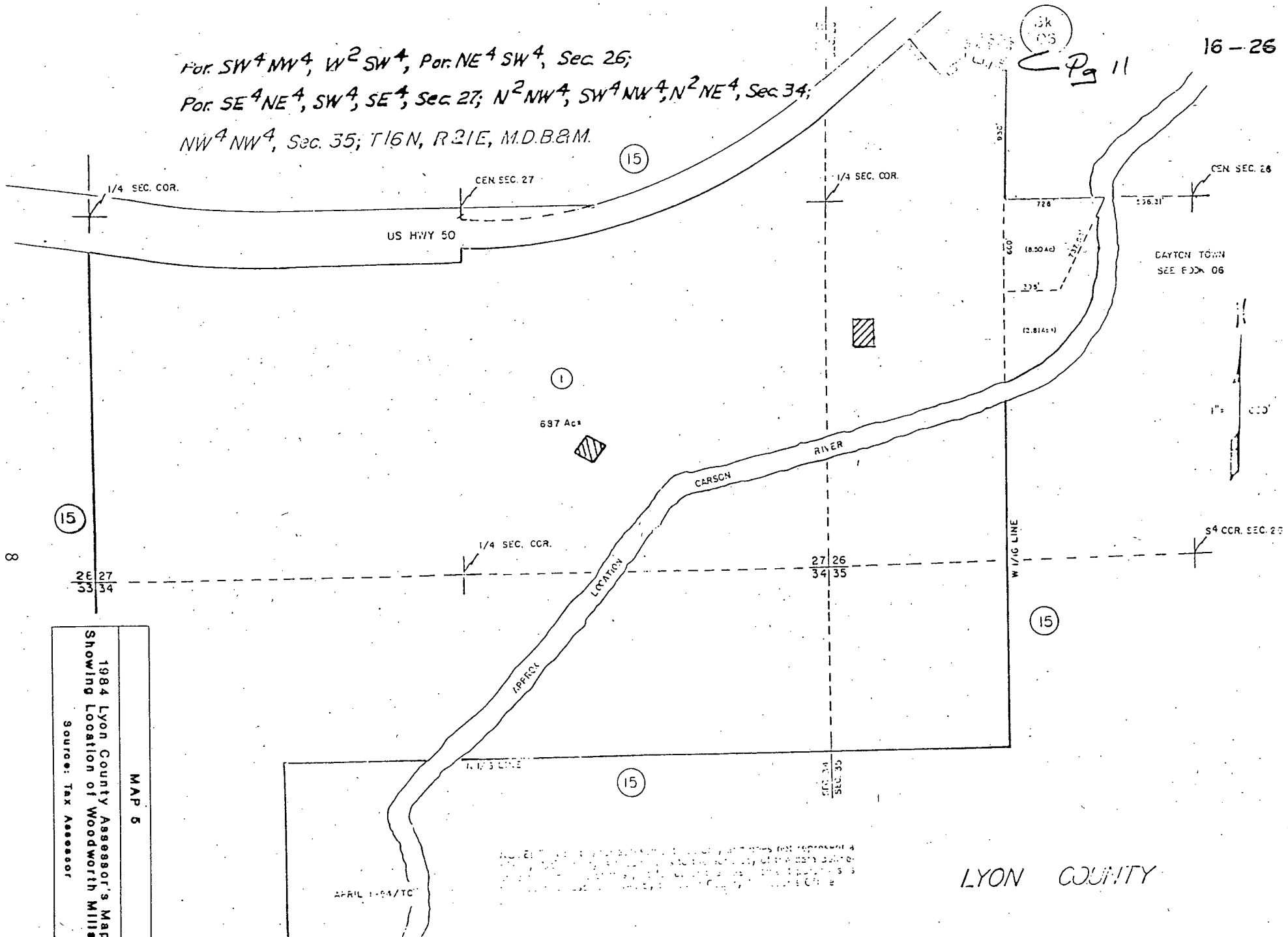
Por. SW<sup>4</sup>NW<sup>4</sup>, W<sup>2</sup>SW<sup>4</sup>, Por. NE<sup>4</sup>SW<sup>4</sup>, Sec. 26;

Por. SE<sup>4</sup>NE<sup>4</sup>, SW<sup>4</sup>, SE<sup>4</sup>, Sec. 27; N<sup>2</sup>NW<sup>4</sup>, SW<sup>4</sup>NW<sup>4</sup>, N<sup>2</sup>NE<sup>4</sup>, Sec. 34;

NW<sup>4</sup>NW<sup>4</sup>, Sec. 35; T16N, R21E, M.D.B.&M.

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LYON COUNTY

MAP 5

1984 Lyon County Assessor's Map  
Showing Location of Woodworth Millsite

Source: Tax Assessor

8

NOTES: This map is a reproduction of the original map and does not represent a  
survey. The accuracy of the data shown is not guaranteed. The map is for  
informational purposes only. The map is not to be used for legal purposes.  
The map is the property of the Assessor and is to be kept confidential.

Mining Company" operating under the name of "J.W. Hastings & Company" to Joseph Mosheimer and Guido Kustel operating under the name of Mosheimer & Kustel for a term of three years to erect and run a quartz mill (C-5). On August 8, 1860, Mosheimer & Kustel gave a mortgage on the leased property to Mrs. Mary Klein (C-4).

One month later, on September 8, 1860, Mosheimer & Kustel entered into an agreement with Joseph Sorber under which Sorber was to pay \$4000 and enlarge "the quartz mill of Mosheimer & Kustel situated in Carson River, Nevada Territory known as Woodworth & Hastings Mill" in exchange for Sorber's receiving a 25% interest in the mill (C-6). From these documents, it is not entirely clear whether the Mosheimer & Kustel mill was actually built.

On December 4, 1860, a one-half interest in the "Mosheimer Mill," rights to which were acquired in the September 8, 1860 lease agreement, was conveyed to Winters by Mosheimer & Kustel (C-16). The miscellaneous volume covering this period has not been located, so the further history of the lease is unavailable. While the interest conveyed by C-16 suggests that the mill existed, it is questionable, given practical considerations of time and technology, whether a new mill could have been constructed this quickly. Moreover, it appears odd that Mosheimer and Kustel, as lessees, were trying to transfer an apparent fee interest.

On September 21, 1860, Woodworth conveyed a 17.5% interest in the mill and property of "Woodworth & Company," consisting of 320 acres, to Stewart (C-7). That same day, Woodworth granted Stewart, Hastings and Winters a 30% interest in the same property (C-8). Meanwhile, and also on September 21, James Walsh granted Woodworth one-half of a 37.5% interest in the same property (C-9). On September 24, 1860, Stewart, Hastings and Winters executed a mortgage in favor of Woodworth on the property (C-10), while Winters individually executed a mortgage to Hastings for shares in the property (C-11). Several days later, on September 29, 1860, a deed from "William Stuart" [sic] conveyed an additional 8.75% interest in the property to Winters (C-17). Stewart, Hastings and Winters were granted a petition seeking water rights in connection with the operation of the "Hastings Quartz-Mill" on October 24, 1860 (A-1;013109). Their petition, granted by the county probate judge and selectmen, claimed that they were the owners of the "water rights acquired by Woodworth and Walsh, who located the said place on or about the 9th of July 1859, and who soon after constructed a Quartz Mill." This suggests that the Hastings and Woodworth mills may have been one and the same.

On November 8, 1860, a "Certificate of Survey to Hastings, Winters & Stewart" was issued by the County Surveyor (C-12). It contains a detailed metes and bounds description, consisting of 525.79 acres, and shows only one mill on the property.

On December 3, 1860, there appear to have been two deeds executed by Hastings to John R. Harold and John Drynan (C-14, C-15). Each of these deeds purport to convey a 42.5% interest in the property "formerly owned by Woodworth, Walsh & Co." as well as the mill "now erected and in operation upon the premises aforesaid". It is possible that one of these transfers may be redundant or repetitive because while the exact nature of the various parties' interests at that point in time is not entirely clear, it does not appear that Hastings had an 85% interest. In addition, on that same date, December 3, Harold and Drynan



executed a mortgage in favor of Hastings for a 42.5% interest in the property (C-13). The existence of only one mortgage also suggests that there was only one transfer of a 42.5% interest.

There are, however, several other inconsistencies surrounding these transactions. First, while both deeds were executed on the same day, C-14 was recorded on December 15, 1860, while C-15 was not recorded until March 19, 1861. Second, on January 1, 1861, Harold executed a deed of trust (C-18) and a mortgage (C-19) to Drynan, each for one-half of a 42.5% interest in the former Woodworth & Walsh Co. mill and property. The deed of trust (C-18) was recorded on January 5, 1861 in Carson County Records (CCR) Deeds Book C, pages 502-504. The mortgage (C-19) was recorded in CCR Mortgages Book A, pages 57-58 on March 19, 1861. These facts raise the possibility that the parties were trying to protect themselves by recording the transactions in all possible places (in both the deed and mortgage books).

It does not appear possible to clarify these transactions by attempting to analyze what interests were later transferred by Harold and Drynan to other parties. There are no records of any later deeds from Harold or Drynan beyond those discussed above. There is a notation on the mortgage executed by Harold in favor of Drynan indicating that it was satisfied on May 20, 1861.

Further complicating matters is the fact that there are two mortgages by John Drynan in favor of Joseph Woodworth dated May 1, 1861, and recorded on May 20, 1861 (C-20, C-21). Both of these mortgages are for a 42.5% interest in the property. One was recorded in CCR Book A of Mortgages while the other was recorded in CCR Book C of Deeds. It would appear by the deed of trust and mortgage from Harold to Drynan that Harold intended to transfer his full interest to Drynan, thus enabling Drynan to mortgage the full interest. However, the nature of the transaction between Drynan and Woodworth is unclear, because while the above mortgages are recorded, there is no indication of any deed or deeds transferring from Drynan to Woodworth.

It is possible that the record of the deed or deeds from Drynan to Woodworth is missing, because, following a March 1, 1862 conveyance by Winters to Stewart of a 28.75% interest in the property (C-22), it appears that Winters, Stewart and Woodworth had a 100% interest in the property. In Kelley's 1862 Directory, this mill was identified as the Carson River Quartz Mill and the proprietors were reported to be Joseph Woodworth, William Stewart, and John B. Winters. The Mill contained 10 stamps and 4 large arrastras and was powered by water brought through a ditch 23 feet wide and 2000 feet long. It had the capacity to crush 20 tons of ore a day. (A-2;A011026)

Woodworth, Stewart and Winters transferred what appears to be a 100% interest including the entire 525.79 acres and mill to the Ophir Silver Mining Company (a California corporation) on January 13, 1863 (C-23). Historical accounts suggest that the Ophir Silver Mining Company rebuilt the mill the following year (A-3;A008136). However, at least one contemporary map shows that by 1867, there were two mills on the property, the "Woodworth Mill" and the "Ophir Mill". In the 1865 Annual Report of the Surveyor General, the new Ophir Mill was described as being erected in 1864, being powered by steam and water, and having 24 stamps

and 15 pans with a crushing capacity of 35 tons per day. The mill worked ore from the Yellow Jacket and Ophir mines (A-4;A008364) (B-4;A008572).

There is a possible gap or lack of clarity in the title for the property at this point. The next documented transactions are the grants of patents from the U.S. Government to William Brisbois on October 10, 1866. These grants include the southwest quarter of the southwest quarter of Section 26, amounting to 40 acres (C-24), the southeast quarter of Section 27, amounting to 160 acres (C-25), and the north half of the southwest quarter of Section 26, amounting to 80 acres (C-26). These grants total 280 acres. There is also a gap in the title history of the remainder of the property, which picks up with the transfer on June 1, 1867 of the southeast quarter of the northeast quarter of Section 27 and the southwest quarter of the northwest quarter of Section 26 from Lucy Frazier to the Ophir Silver Mining Company (C-27). The title documents do not explain who Frazier or Brisbois were or what their interest in the property was.

On October 23, 1869, Ophir Silver executed a deed conveying the property "formerly known as the property of the 'Carson River Mining Company' since and now known as the Woodworth, or Ophir, Mill property consisting of a Quartz Mill . . . and . . . 525.79 acres of land" to W. S. Hobart (C-29). This parcel will be referred to as "Parcel A."

Hobart deeded a one-half interest in 529 (not 525.79; apparently a transcription error) acres formerly owned by the Ophir Silver Mining Co., including a quartz mill formerly known as the Woodworth Mill, along with a one-half interest in a flume constructed by Hobart from Silver City to the quartz mill "for the purpose of carrying tailings to said Mill," to James C. Flood, W. D. O'Brien, doing business as Flood & O'Brien, J. W. Mackay and J. G. Fair on June 14, 1870 (C-30). This deed did not specifically transfer an interest in the tailings themselves, nor is there a map which shows the location of the flume. The deed broke out the interest as follows: Flood & O'Brien; three-sixteenths, Mackay; three sixteenths, and Fair; one-eighth.

Meanwhile, on July 1, 1870, Hobart mortgaged his remaining one-half interest in 525 (not 529) acres, the mill, the flume and "also 1/2 of the tailings carried and deposited at said mill by said flume" to L. P. Drexler (C-31). This document reads like a deed rather than a mortgage, but the "defeasance" that immediately follows in the record (C-32), clarifies the first document's role as a mortgage in light of other monies then being owed by Hobart to Drexler. On September 12, 1870, Drexler reconveyed his interest back to Hobart in an apparent satisfaction of the mortgage (C-33).

On the next day, September 13, 1870, Hobart conveyed a one-half interest in the property, including the mill, flume and tailings, to John W. Mackay and James G. Fair (C-34). This document reads like, and is recorded as, a deed. However, an indenture executed January 6, 1872 by Mackay and Fair (C-35) indicates that the parties intended C-34 to be a mortgage for repayment of \$35,000, and that C-35 was intended as a reconveyance to Hobart due to his satisfaction of that mortgage.

Throughout this period, contemporary accounts indicate that the mill continued to operate. In the 1869-1870 State Mineralogist Report for Lyon County, the

Woodworth Mill was reported to have 24 stamps and 12 pans (A-5;A008529). In the 1871-1872 State Mineralogist Report, and the 1876 Land of Silver, the Woodworth Mill was reported to have 24 stamps and a crushing capacity of 48 tons of ore per day (A-6;A011002) (A-7;A005026).

Hobart could not seem to hang on to his remaining one-half interest, and on December 15, 1875, he conveyed it (again described as 529 acres) to the Nevada Bank of San Francisco (C-36). This conveyance did not specifically include the flume or tailings. It was recorded at the request of Wells Fargo & Co.

Later that month, on December 22, 1875, James Fair conveyed a one-half interest in the southwest quarter of the northwest quarter of Section 26 (Parcel B) to the Nevada Bank of San Francisco (C-38), and in a separate transaction, the same interest to the Pacific Mill & Mining Co. (C-37). These transactions were recorded at the request of Wells Fargo & Co.

On January 2, 1904, Pacific Mill and Mining and the Hobart Estate Co. conveyed to W. J. Westerfield their interests (C-39) in property described in a metes and bounds description and recorded as "being the same property mentioned in a deed from the 'Ophir Silver Mining Company' to W. S. Hobart dated October 23rd, 1869," (Parcel A) along with another parcel described as the southwest quarter of the northwest quarter of Section 26, this being the same property as described in a deed from J. G. Fair to Pacific Mill and Mining, dated December 22, 1875 (Parcel B). Fair had already conveyed a 1/2 interest in that parcel, parcel B, to the Nevada Bank of San Francisco on that same date (C-38), in addition to the interest transferred to Pacific Mill and Mining Company. There is no indication of the Nevada Bank of San Francisco conveying out its interest.

Later that month, on January 18, 1904, Louise Mackay and Clarence Mackay conveyed their interest in the property (apparently Mackay's 3/16) to Westerfield (C-40). Likewise, on January 21, 1904, Theresa Oelrich, Virginia Vanderbilt and James L. Flood (who was the President of Pacific Mill and Mining Co.) (C-39) conveyed their interest (apparently Flood & O'Brien's 3/16) to Westerfield (C-41). Westerfield conveyed Parcels A and B to Henry Combellick on April 16, 1904 (C-42).

On July 5, 1905, Ophir Silver deeded the southeast quarter of Section 27, and the west half of the southwest quarter of Section 26 to Henry Combellick and John Depaoli (C-43). On February 20, 1907, Combellick and Depaoli executed an agreement declaring that they each held a one-half undivided interest in property held by either of them (A-8). At this point, it appears that the entire Woodworth parcel was in the hands of Depaoli and Combellick.

Combellick deeded his interest in the property to Depaoli on March 13, 1914 (C-44). Depaoli entered into a sales agreement with Marsilio Sorani and Constantino Benedetti for Parcels A and B on January 30, 1915, excepting from the transaction "all that portion of the property lying on the "Northerly side of the Southern Pacific Railroad track, together with the dwelling house" on that side of the tracks (C-45). This agreement also contained the purchasers' agreement to assume two mortgages taken out by Depaoli, one held by Alfred Chartz, and one held by Margaret Mack (these mortgages are not included because the mortgage books were not searched).


On March 21, 1918, Benedetti assigned his one-half interest in the property to Alfred Chartz (C-46, C-47). These documents appear to be redundant, except that C-45 does not include Parcel B. Both documents are dated and recorded at the same time. Alfred Chartz agreed to transfer this interest to Marsilio Sorani and Cesira Sorani on March 10, 1919 (C-48). A deed on this same date from Depaoli's estate to Sorani conveys the entire interest in Parcels A and B to Sorani in consideration of the outstanding mortgage balance (C-49).

At this point there is an unexplained gap in the title history. The property again falls into the hands of the Chartz family through means which are not documented. On October 19, 1943, Emma Chartz, apparently the widow of Alfred Chartz, conveyed the property to her children, Helen Haley, Beatrice Chartz and John M. Chartz (C-50). The Chartz children conveyed the property to Pio Quilici on January 1, 1948 (C-51). Quilici, in turn, granted it to Mary Louise Darling on July 26, 1950 (C-52). There was an action to quiet title decided in 1953, which, although it did not affect the ownership of these parcels, resulted in a correcting deed from Quilici to Darling on August 3, 1953 (C-53).

Darling and her husband, Blake Darling, conveyed the property to John D. and Kathleen Winters on February 14, 1955 (C-54). In an agreement dated October 10, 1975 (not searched), the Winters transferred the property into the JohnD (sic) Winters Family Trust. On November 8, 1983, the Winters as co-trustees of the Trust, conveyed the property to Winters Sunrise Properties (C-55), a Nevada general partnership, completing the title history for this property. The current assessed owners of the historic millsite parcels are:

#### Current Assessed Owners

<u>Parcel No.</u>	<u>Owner</u>
16-261-03	Winters Sunrise Properties
16-261-05	c/o John N. Winters
16-261-06	P.O. Box 2233
16-261-07	Dayton, Nevada 89403
16-261-04	Winters, John & Kathleen TRS
	P.O. Box 2233
	Dayton, Nevada 89403
06-111-01	Dennis, Owen
	P.O. Box 4218
	Carson City, Nevada 89702
06-111-02	Clinger, Donald & Sherrie
	P.O. Box 1291
	Dayton, Nevada 89403
06-112-01	DeMarzo, Frances L.
	P.O. Box 456
	Dayton, Nevada 89403

06-112-02	Thurman, Demar 
06-112-04	Haas, Florence/Roger/Vicki E. P.O. Box 1551 Dayton, Nevada 89403
06-112-05	Firestone, Thomas E. & Dixie Lee P.O. Box 411 Dayton, Nevada 89403
06-112-06	Ford, Vera P.O. Box 577 Dayton, Nevada 89403
06-112-27	Southern Pacific Transportation c/o Larry Bennett One E First St. #904 Reno, Nevada 89501
16-151-06	Moffett, Melinda P.O. Box 83 Glenbrook, Nevada 89413
16-151-20	Serpa, John C. P.O. Box 1724 Carson City, Nevada 89702
16-151-37	Bureau of Land Management
16-151-40	Bureau of Land Management
none	State of Nevada Department of Transportation (land under Highway 50)

The title tree, title abstract, and Preliminary Millsite Map for the Woodworth Millsite follow. The title documents are contained in Attachment II.

## WOODWORTH MILLSITE

DATE	INST	GRANTOR	GRANTEE	PROPERTY & COMMENTS	DATE RECORDED	COUNTY BOOK	COUNTY PAGE	DOCUMENT NUMBER
07-23-1860	Deed	Joseph W. Hastings	John B. Winters	300 acres and mill 1/10 operated by Woodworth, Stewart, Hastings and others	10-04-1860	CCR Deeds C	215-216	Also LC/CCR Deeds A/153-155 (C-1)
07-23-1860	Mtg.	John B. Winters	Joseph W. Hastings	against 1/10 of 300+ acres	10-01-1860	CCR Deeds B	621-623	(C-2)
07-23-1860	Deed	Joseph Woodworth	Joseph W. Hastings	32½ / 100 of 320 acres and quartz mill operated by Hastings Stewart and Woodworth	03-14-1861	CCR Deeds A	347	Also LC/CCR Deeds A/355-357 (C-3)
08-08-1860	Mtg.	Joseph Mosheimer Guido Kustel	Mrs. Mary Klein	against Woodworth & Hastings Quartz mill (10-stamps) and land (+30 Hungarian amalgomators)	10-01-1860	CCR Deeds B	623-626	(C-4)
08-09-1860	Art. of Agreement	Quartz Mill of the Carson River Mining Company dba J. W. Hastings & Co.	Guido Kustel Joseph Mosheimer dba Mosheimer & Kustel	3 year lease for ground & water to erect and run a 10-stamp mill	10-02-1860 Carson City.. Co.	CCR Deeds B	626-627	(C-5)
09-08-1860	Agreement	Mosheimer & Kustel	Joseph Sorber	Sorber paid \$4,000 to enlarge Mosheimer & Kustel mill aka Woodworth & Hastings mill. Conveys 1/4 of 10 stamp mill to Sorber	04-24-1861	CCR Powers	104	(C-6)
09-21-1860	Deed	Joseph Woodworth	William Stewart	17½ / 100 as in A/113-115	10-02-1860	CCR Deeds B	637-638	Also LC/CCR Deeds A/115-117 (C-7)

## WOODWORTH MILLSITE (continued)

DATE	INST	GRANTOR	GRANTEE	PROPERTY & COMMENTS	DATE RECORDED	COUNTY BOOK	COUNTY PAGE	DOCUMENT NUMBER
09-21-1860	Deed	Joseph Woodworth	William Stewart Joseph W. Hastings John B. Winters	30/100 as in A/113-115	10-02-1860	CCR Deeds A	638- 639	Also LC/CCR Deeds A/117-119 (C-8)
09-21-1860	Deed	James Walsh	Joseph Woodworth	$\frac{1}{2}$ of 37 $\frac{1}{2}$ / 100 Mill and Property of Woodworth and Company (320 acres)	10-01-1860	CCR Deeds B	635- 636	Also LC/CCR Deeds A/113-115 (C-9)
09-24-1860	Mtg.	William Stuart Joseph W. Hastings John B. Winters	Joseph Woodworth	against mill and property of Woodworth & Co. (320 acres)	10-03-1860	CCR Deeds B	205- 206	(C-10)
09-24-1860	Mtg.	John B. Winters	Joseph W. Hastings	against shares of millsite (320 acres) and mill of Woodworth & Co.	10-24-1860	CCR Deeds B	303- 304	(C-11)
09-29-1860	Deed	William Stuart	John B. Winters	8-3/4 / 100 Mill of the Woodworth and Company and 320 acres	01-19-1861	CCR Deeds C	535- 536	Also LC/CCR Deeds A/209-211 (C-17)
10-29 & 10-30-1860	Survey of Land Claim	County Surveyor	Joseph W. Hastings John B. Winters William Stuart	525.79 acres including mill house and stable	11-26-1860	CCR Deeds D	001	(C-12)
12-03-1860	Mtg.	John R. Harold John Drynan	Joseph W. Hastings	against 42 $\frac{1}{2}$ / 100 of Quartz Mill and millsite of Woodworth, Walsh & Co.	12-15-1860	CCR Deeds C	470- 471	(C-13)
12-03-1860	Deed	J. W. Hastings	John R. Harold John Drynan	42 $\frac{1}{2}$ / 100 location made by Woodworth, Walsh and Company also quartz mill now erected Deed incumbent on mortgage	12-15-1860	CCR Deeds C	471- 473	Also LC/CCR Deeds A/191-192 (C-14)

## WOODWORTH MILLSITE (continued)

DATE	INST	GRANTOR	GRANTEE	PROPERTY & COMMENTS	DATE RECORDED	COUNTY BOOK	COUNTY PAGE	DOCUMENT NUMBER
12-03-1860	Deed	J. W. Hastings	John R. Harold John Drynan	41½ / 100 of location made by Woodworth, Walsh & Company and Quartz Mill now erected (encumbered by mortgage)	03-19-1861	CCR Morse A	372- 373	Also LC/CCR Deeds A/369-371 (C-15)
12-04-1860	Deed	Guido Kustel Joseph Mosheimer	John B. Winters	½ "Mosheimer Mill" consisting of 10 stamp Quartz Crushing Mill and Amalgamators and rights granted in B/626	12-12-1860	CCR Morse A	095	Also LC/CCR Deeds A/293-295 (C-16)
01-01-1861	Deed of Trust	John R. Harold	John Drynan	½ of 42½ / 100 of mill and millsite formerly owned by Woodworth, Walsh & Co.	01-05-1861	CCR Deeds C	502- 504	(C-18)
01-01-1861	Mtg.	John R. Harold	John Drynan	½ of 42½ / 100 of mill and millsite formerly owned by Woodworth, Walsh & Co.	03-19-1861	CCR Mtg. A	057- 058	(C-19)
05-01-1861	Mtg.	Joseph Woodworth	John Drynan	42½ / 100 of millsite location made by Woodworth, Walsh & Co.	05-20-1861	CCR Deeds C	726- 727	(C-20)
05-01-1861	Mtg.	Joseph Woodworth	John Drynan	42½ / 100 of millsite location made by Woodworth, Walsh & Co.	05-20-1861	CCR Mtg.	108	(C-21)
05-20-1861	Satisf- action	John Drynan		notation in margin regarding satisfaction of D/T at CCR Mtg. A/57		CCR Mtg. A	057	(C-19)
03-01-1862	Deed	John B. Winters	William Stewart	28-3/4 / 100 Woodworth & Walsh location	03-04-1862	Deeds A	001- 002	(C-22)
01-13-1863	Deed	John B. Winters William Stuart Joseph Woodworth	Ophir Silver Mining Company (CA Corp.)	525.79 acres and Quartz Mill	02-04-1863	Deeds A	683- 685	(C-23)



## WOODWORTH MILL SITE (continued)

DATE	INST	GRANTOR	GRANTEE	PROPERTY & COMMENTS	DATE RECORDED	COUNTY BOOK	COUNTY PAGE	DOCUMENT NUMBER
10-10-1866	Patent	United States of America	William M. Brisbois	SW 1/4 of SW 1/4 Section 26 (40 acres) (Certificate 1B)	07-18-1867	Deeds F	076	(C-24)
10-10-1866	Patent	United States of America	William M. Brisbois	SE 1/4 Section 27 (160 acres) (Certificate 1E)	07-18-1867	Deeds F	078	(C-25)
10-10-1866	Patent	United States of America	William M. Brisbois	N 1/2 of SW 1/4 Section 26 (80 acres) (Certificate 1C)	07-18-1867	Deeds F	077	(C-26)
06-01-1867	Deed	Lucy Frazier	Ophir Silver Mining Company	SE 1/4 of NE 1/4 Section 27 SW 1/4 of NW 1/4 Section 26	07-18-1867	Deeds F	079-080	(C-27)
06-28-1867	Deed	William M. Brisbois	Ophir Silver Mining Company	patents in Certificates 1A, 1B, 1C, and 1E.	07-18-1867	Deeds F	080-082	(C-28)
10-23-1869	Deed	Ophir Silver Mining Company (California corporation)	W. S. Hobart	Carson River Mining Company, Woodworth or Ophir Mill interests in G/022-024 (Parcel A)	12-21-1869	Deeds F	665-667	(C-29)
06-14-1870	Deed	W. S. Hobart	3/16 James C. Flood and W. D. O'Brien dba Flood & O'Brien 3/16 J. W. MacKay 1/8 J. G. Fair	1/2 Woodworth Mill and 529 acres Also 1/2 flume used to carry tailings to mill from Silver City	06-24-1870	Deeds G	014-016	(C-30)
07-01-1870	(Mortgage) Deed	W. S. Hobart	L. P. Drexler	1/2 tailings sent down flume 1/2 Woodworth Mill + 525 acres	07-08-1870	Deeds G	022-024	(C-31)
07-01-1870	(AGT)	L. P. Drexler	W. S. Hobart	Clarification of indebtedness regarding G/022-024	07-08-1870	Deeds G	024-025	(C-32)

## WOODWORTH MILLSITE (continued)

DATE	INST	GRANTOR	GRANTEE	PROPERTY & COMMENTS	DATE RECORDED	COUNTY BOOK	COUNTY PAGE	DOCUMENT NUMBER
09-12-1870	Deed	L. P. Drexler	W. S. Hobart	1/2 Woodworth Mill + 525 acres	09-13-1870	Deeds G	069-071	(C-33)
09-13-1870	Deed	W. S. Hobart	John W. Mackay J.G. Fair	1/2 tailings carried by flume 1/2 Woodworth Mill and 525 acres (intended as mortgage according to G/484)	09-13-1870	Deeds G	071-072	(C-34)
01-06-1872	Deed	John W. MacKay James G. Fair	W. S. Hobart	1/2 525 acres and Woodworth mill	02-07-1872	Deeds G	484-486	(C-35)
12-15-1875	Deed	W. S. Hobart	Nevada Bank of San Francisco	1/2 Woodworth Mill + 529 acres (recorded at request of Wells Fargo and Company)	12-20-1875	Deeds H	284-285	(C-36)
12-22-1875	Deed	James G. Fair	Pacific Mill and Mining Company	1/2 SW 1/4 of NW 1/4 Section 26 (Parcel B) (Recorded at request of Wells Fargo Co.)	12-28-1875	Deeds H	287	(C-37)
12-22-1875	Deed	James G. Fair	Nevada Bank of San Francisco	1/2 SW 1/4 of NW 1/4 Section 26 (Parcel B) (Recorded at request of Wells Fargo & Co.)	12-28-1875	Deeds H	288	(C-38)
01-02-1904	Deed	Pacific Mill and Mining Company Hobart Estate Company	W. J. Westerfield	Parcel known as Woodworth Mill property SW 1/4 of NW 1/4 Section 26 (Reference to Hastings and Company's quartz mill)	04-18-1904	Deeds N	660-662	(C-39)
01-18-1904	Deed	Louise Mackay Clarence H. Mackay	W. J. Westerfield	Parcel A in F/665 Parcel B	04-18-1904	Deeds N	663-665	(C-40)
01-21-1904	Deed	Theresa A. Oelrichs Virginia Vanderbilt James L. Flood	W. J. Westerfield	Parcel A in F/665 Parcel B	04-18-1904	Deeds N	665-667	(C-41)

## WOODWORTH MINING SITE (continued)

DATE	INST	GRANTOR	GRANTEE	PROPERTY & COMMENTS	DATE RECORDED	COUNTY BOOK	COUNTY PAGE	DOCUMENT NUMBER
04-16-1904	Deed	W. J. Westerfield	Henry Combellick	Parcel A Parcel B	04-18-1904	Deeds N	667- 668	(C-42)
07-05-1905	Deed	Ophir Silver Mining Company (CA Corp.)	Henry Combellick John Depaoli	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26	07-11-1905	Deeds O	033	(C-43)
03-13-1914	GBS Deed	Henry Combellick	John Depaoli	1/2 of SE 1/4 Section 27 1/2 of W 1/2 of SW 1/4 Section 26	03-24-1914	Deeds S	378	(C-44)
01-30-1915	Sales Agt.	John Depaoli	Marsilio Sorani Costantino Benedetti	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 (Parcels A & B)	02-06-1915	Misc J	052- 055	Document #12334 (C-45)
03-21-1918	Assign- ment	Constantino Benedetti	Alfred Chartz	Assigns 1/2 of J/52	03-23-1918	Misc J	490- 493	(C-46)
03-21-1918	Assign- ment	Constantino Benedetti	Alfred Chartz	Assigns 1/2 of Parcel A	03-23-1918	Misc J	482-	(C-47)
03-21-1918	Agree- ment	Alfred Chartz	Marsilio Sorani Cesira Sorani	Assigns interest received by J/490	02-15-1919	Misc J	599- 600	(C-48)
03-10-1919	Deed	Estate of John Depaoli	Marsilio Sorani	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 (Parcels A & B)	03-13-1919	Deeds U	407- 409	(C-49)
10-19-1943	Deed	Emma Chartz	Helen Haley Beatrice E. Chartz John M. Chartz	NE 1/4 Section 27 W 1/2 of SW 1/4 Section 26	01-10-1944	Deeds 32	537- 540	Document #51035 (C-50)
01-08-1948	Deed	Helen Haley Beatrice E. Chartz John M. Chartz	Pio Quilici	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 Portion of NE 1/4 of SW 1/4 Section 26	01-24-1948	Deeds 35	215- 218	Document #55506 (C-51)
07-26-1950	Deed	Pio Quilici	Mary Louise Darling	See Deeds 38/218 368.83 acres	09-23-1950	Deeds 36	282- 283	Document #58284 (C-52)

## WOODWORTH MILLSITE (continued)

DATE	INST	GRANTOR	GRANTEE	PROPERTY & COMMENTS	DATE RECORDED	COUNTY BOOK	COUNTY PAGE	DOCUMENT NUMBER
09-01-1953	Quiet Title			No useful information on file - regards 5 acre portion not next to mills				Case #3432
09-08-1953	Corr Deed	Pio Quillici	Mary Louise Darling	SE 1/4 Section 27 W 1/2 of SW 1/4 Section 26 Portion of NE 1/4 of SW 1/4 Section 26	09-11-1953	Deeds 38	218-220	Document #64113 (C-53)
02-14-1955	Deed	Mary Louise Darling Blake Darling	JohnD [sic] Winters Kathleen M. Winters	Property now known as Winters Ranch	07-03-1956	Deeds 40	278-280	Document #70984 (C-54)
10-10-1975	Agt.	JohnD [sic] Winters Kathleen M. Winters	JohnD [sic] Winters Family Trust	All property				Not searched
11-08-1983	Deed	JohnD N. Winters and Kathleen M. Winters as co-trustees of JohnD Winters Family Trust Agreement	Winters Sunrise Properties, a NV general partnership	Winters Ranch	02-23-1984	None	None	Document #83649 (C-55)

SOURCE: NEVADA: THE  
LAND OF SILVER  
BY JOHN J. POWELL, 1876

Nevada

On openlibrary.org

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NEVADA,

many varieties; but in the chemistry of the operation there has been no change.

The foregoing description of the various milling processes by which the precious metals are extracted from the ore may be appropriately followed by a tabular statement of the number of the mills themselves, their capacity, etc., etc.

### A List of Quartz and Tailing Mills

IN

LYON, ORMSBY, AND STOREY COUNTIES, NEVADA.

#### LYON COUNTY.

NAME.	SITUATION.	TONS CAPACITY.	STAMPS.
Devil's Gate . . . . .	Silver City . . . . .	24	12
Pioneer . . . . .	" . . . . .	30	15
Bacon . . . . .	" . . . . .	40	20
Trench . . . . .	" . . . . .	40	20
Horn . . . . .	" . . . . .	20	10
Kelsey . . . . .	" . . . . .	30	15
Golden Age . . . . .	" . . . . .	10	5
Hope . . . . .	" . . . . .	20	10
Excelsior . . . . .	Gold Cañon . . . . .	20	10
Sacramento . . . . .	" . . . . .	25	12



## THE LAND OF SILVER.

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## LYON COUNTY—(CONTINUED).

NAME.	SITUATION.	TONS CAPACITY.	STAMPS.
Swansea .....	Gold Cañon	25	12
Atlanta .....	"	20	10
Keystone .....	"	30	Tailings
Eureka .....	Carson River	120	60
Franklin .....	"	40	20
Woodworth .....	"	48	24
Island .....	"	20	10
Carson Valley .....	"	300	Tailings
Desert .....	"	25	"
Birdsall & Co. ....	Dayton .....	300	"
Reservoir .....	"	50	"
Rock Point .....	"	112	56
Spring Valley .....	Spring Valley	20	10
Daney .....	"	30	15

## ORMSBY COUNTY.

NAME.	LOCATION.	MOTIVE.	STAMPS.	PANS.	SETTLERS.	TONS PER DAY.
Mexican .....	Empire .....	Water	44	20	10	120
Yellow Jacket .....	"	Steam	40	13	6	75
Brunswick .....	Carson River	Water	56	26	13	150
Merrimac .....	"	"	20	13	6	45
Vivian .....	"	"	16	8	7	40
Santiago .....	"	"	34	9	18	80

These mills are all kept running on Comstock ores, brought from the mines and delivered by the Virginia and Truckee Railroad.

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## NEVADA,

## STOREY COUNTY.

NAME.	LOCATION.	MOTIVE.	STAMPS.	TONS PER DAY.
Boston .....	Gold Cañon . . .	Steam	5	..
Ione .....	"	"	5	15
Succor .....	"	"	15	25
Ramsdale .....	"	"	2	5
Pacific .....	"	"	30	70
Pappoose .....	"	"	5	14
Piute .....	Lower Gold Hill	"	20	50
Douglas .....	"	"	15	30
Atlas .....	"	"	15	45
Petaluma .....	"	"	24	75
Sapphire .....	"	"	15	40
Rhode Island .....	"	"	25	50
Gold Hill Quartz .....	"	"	8	18
Sunderland .....	"	"	10	25
Hoosier State .....	Virginia .....	"	18	40
Sierra Nevada .....	"	"	20	50
Evans .....	Seven-mile Cañ.	"	5	13
Mariposa .....	"	"	12	30
Sacramento & Meredith	Cedar Hill . . .	"	20	50
Winfield .....	Seven-mile Cañ.	"	20	50
Atlantic .....	"	"	12	30
Landy .....	"	"	20	50
De Lands .....	Six-mile Cañon.	"	15	35
Nevada .....	Virginia .....	"	20	50
Empire State .....	Six-mile Cañon.	"	15	40
Park & Bowie No. 1 ..	"	"	..	..
Park & Bowie No. 2 ..	"	"	..	..
Occidental .....	Silver Star Dist.	"	20	50
Lady Bryan .....	Six-mile Cañon.	"	10	..

necessary to sink several hundred feet further to obtain the same. Powerful hoisting works have been erected at each one of the shafts. In No. 2 a large amount of water has been encountered. When pumps are allowed to stop it rises to within three hundred feet of surface. A large machine shop has been erected at Sutro for the manufacture of all the machinery to be used by the company. There is here a store supplied with everything necessary for use at the different works. These are issued as they are needed. The formations through which the tunnel has passed so far, are: for the first seven hundred and fifty feet, conglomerate; then trachyte three hundred and eighty feet; after this a belt of clay one hundred and fifty feet; and then comes one thousand seven hundred and fifty feet of porphyry; then three hundred and ten feet of trachyte. It is calculated that the tunnel will be completed to the Comstock lode in from two to two and a half years from the present time, providing no unlooked for obstacles are met with in the prosecution of the work.

## MILLS.

The following list of quartz and tailing mills was made by Mr. George Fadden, County Assessor:

Name.	Situation.	Capacity, tons.	Stamps.	Condition.
Devil's Gate.....	Silver City.....	24	12	running
Pioneer.....	Silver City.....	30	15	running
Bacon.....	Silver City.....	40	20	running
Trench.....	Silver City.....	40	20	running
Horn.....	Silver City.....	20	10	running
Elsey.....	Silver City.....	30	15	running
Golden Age.....	Silver City.....	10	5	running
Hope.....	Silver City.....	20	10	running
Excelsior.....	Gold Cañon.....	20	10	running
Sacramento.....	Gold Cañon.....	25	12	idle
Swansea.....	Gold Cañon.....	25	12	idle
Atlanta.....	Gold Cañon.....	20	10	running
Keystone.....	Gold Cañon.....	30	Tailings.	running
Bureka.....	Carson River...	120	60	running
Franklin.....	Carson River...	40	20	running
Woodworth.....	Carson River...	48	24	running
Island.....	Carson River...	20	10	idle
Carson Valley.....	Carson River...	300	Tailings.	running
Desert.....	Carson River...	25	Tailings.	running
Birdsall & Co.....	Dayton.....	300	Tailings.	running
Reservoir.....	Dayton.....	50	Tailings.	running
Rock Point.....	Dayton.....	112	56	idle
Spring Valley.....	Spring Valley...	20	10	running
Daney.....	Spring Valley...	30	15	idle

NEVADA

1871 &amp; 1872

## DEVIL'S GATE DISTRICT

Is situated in Gold Cañon. Silver City is about its central point. Mines here were worked several years ago, but for a long time were idle, and some of them abandoned. Work, however, has resumed here lately, and the prospects of this district never more encouraging than the present.

## DAYTON.

This mine is located in Silver City, on the south side of the town. The old works on this mine are a tunnel, in which a shaft was sunk to a depth of one hundred feet. A new shaft has been started, which has reached a depth of one hundred feet. New steam hoisting works are to be erected in the Spring. Ore from this mine is extracted in sufficient quantity to keep the Atlanta Mill—ten stamps—constantly running. This is one of the earliest locations in the district. Nothing was done on this mine for a number of years. During the past Summer work was resumed—works cleaned out, and a new shaft commenced.

## BUCKEYE.

This mine is located one mile east of Silver City, in Long's Ravine. It is also one of the old locations. Steam hoisting works have been erected here, but everything was abandoned, and nothing done for a long time. Two years ago work was resumed, and new steam hoisting works were erected. An incline is down a distance of six hundred feet. Two stamps, Horn and Hope, each ten-stamp, are supplied with ore from this mine. Water in considerable quantities is found, requiring an eight-inch pipe to keep the mine clear. This water is carried by flumes around to Silver City, and supplies the Bacon and Trench Mills.

## COOK &amp; GEYER.

This mine is located about three quarters of a mile north of Silver City. A great amount of work was done on it last Summer, and it has been idle here kept the Franklin Mill running. It has been idle for the last three months, but work will soon be resumed again.

## DANEY.

This mine has been abandoned. Some good ore was here near the surface, and worked out years ago. Since that time hundreds of thousands of dollars have been expended in prospecting for other bodies of ore, but nothing of any consequence has been found. Work has stopped and renewed again several times. During the excitement of the Spring the owners were again inspired with the hope of finding something in this mine, but after several months of work they have given up and will remove the hoisting works and other material of value.



BELCHER.

Within the past two years twenty thousand tons of ore, yielding on an average \$17 per ton, have been obtained from this mine, nearly all from the upper levels. The deepest openings are eight hundred and fifty feet below the surface. At this depth the vein is nearly barren, showing only traces of gold and silver.

LUCERNE MINE.

This mine is situated near Devil's Gate, Silver City, southeast from Gold Hill. It is opened by a shaft and tunnels to the depth of three hundred feet. The vein is well defined and the walls have clay linings. The ore produces on an average \$10 per ton. The bullion assays \$3 50 per ounce in silver, and \$6 50 in gold. The ore is easily reduced, and the mine is worked without difficulty. The vein dips east about 45°. The country rock on the west is granite; on the east it is propolite.

WALLER'S DEFEAT, ST. LOUIS, SUCCOR,

And other mines are on the same vein, and are worked very similarly to the Lucerne, and have the same characteristics and productiveness.

LYON COUNTY.

The natural resources described in my last report as peculiar to this county, have undergone but little change. Some developments have been made, but the results are not particularly marked. Public schools and churches have been prospered, and some improvements are perceptible.

The official returns fix the popular vote, at the last general election, at six hundred and thirteen, being two hundred and eighteen less than the vote cast two years ago.

The mines in Spring Valley District, three miles west from Dayton, have recently received some attention—several abandoned claims have been relocated, and a mill with ten stamps is being erected.

In Devil's Gate District, ore of a low grade is being extracted from the Hope, Buckeye and other mines. These mines were never developed to a great extent, and will probably produce large quantities of ore.

Owing to the fine water privileges afforded by the Carson River, and the facilities of access to the mines, principally in Storey County, there are a large number of mills in Lyon County.

- The Atlanta has ten stamps and six pans.
- The Birdsall has thirty stamps and forty pans.
- The Bacon has twenty stamps and ten pans.
- The Carson Valley has twenty stamps and ten pans.
- The Daney has twenty stamps and ten pans.
- Dayton Reduction has six pans.
- Devil's Gate has twelve stamps and ten pans.
- Excelsior has ten stamps and twenty pans.
- Eureka has twenty stamps and eight pans.
- Eagle Mill has two pans and four arastras.
- Franklin has ten stamps and four pans.

- Hope has ten stamps and six pans.
- Island has ten stamps and four pans.
- Illinois has twenty stamps and six pans.
- Keystone has five stamps and six pans.
- Kelsey has fifteen stamps and six pans.
- Pioneer has fifteen stamps and ten pans.
- Phoenix has fifteen stamps and ten pans.
- Rock Point has fifty-six stamps and forty-three pans.
- Swansea has twelve stamps and ten pans.
- Sacramento has fifteen stamps and eight pans.
- San Francisco has ten stamps and eight pans.
- Sherman has five stamps and four pans.
- Tailings Mill has two pans.
- Woodworth has twenty-four stamps and twelve pans.
- Winter's has two stamps, two pans and two arastras.
- Weston has fifteen stamps and nine pans.
- French has twenty stamps and eighteen pans.
- The copper mines, twenty-five miles southeast from Dayton, are not worked.

SUTRO TUNNEL.

This tunnel was commenced in 1869, and has been prosecuted with commendable energy. It is run westward from the face of the foot-hills north of Dayton, so as to intersect the Comstock ledge at right angles at the depth of two thousand one hundred and seventy-two feet. It has been driven sixteen hundred and fifty feet. A stream, affording about twenty-five inches of water, flows from it. No valuable veins of ore have as yet been found.

It is proper to state that a large number of the mills are not running, the supply of ore having ceased.

CHURCHILL COUNTY.

There has been but little progress in the developments of the natural resources of this county within the past two years. The completion of the Central Pacific Railroad withdrew the travel and transportation almost entirely from the Overland Mail Road; consequently business ceased, and many of the stations along that road have been abandoned. The agricultural lands along the Carson River and about the Carson Lake and Sink have produced well.

The popular vote of the county at the late general election was eighty-seven; sixty-four votes less than were cast in November, 1868.

The soda mine, near Ragtown, has been opened to the depth of twelve or fifteen feet. It is situated in a small basin on the southwestern border of the desert surrounding the sink of the Carson and Humboldt Rivers. There is a pond or small lake near by, perhaps three quarters of a mile in length and from a quarter to half a mile in width, and said to be of great depth.

The water collects in the soda basin during the rainy season, and afterward gradually evaporates, leaving the soda beautifully crystalized over a space of from one to two acres in extent. From the developments recently made, it seems that this deposit has an unknown depth, and consists

**—RECORD.**  
 Disgraceful and dishonorable justice this morn-  
 ing in the Federal court. Gen. Cutler, ar-  
 rest of the Mayor, for disturbing the  
 peace, discharged, John Doe, arrested  
 for being drunk, paid costs  
 and was discharged. L. Good, J.  
 will be tried this

**Yule Ophir M.**—Ophir Mining Company,  
proprietors; steam power, twenty-four

## Watch Makers

Tabular list of mills crushing ore from mines on the Comstock lode during the year 1866.

Names.	Owners.	Location.	When built.	Estimated cost.	Horse power.	STAMPS.				WHEELS.		WATER.		WOOD.	
						Number.	Weight, pounds.	Drop in inches.	Drops per minute.	Kind.	Diameter, feet.	Fall, feet.	Amount, inches.	Cords per day.	Cost per cord.
STOREY COUNTY.															
Atlas.	Hagglin & Tevis.	Lower Gold Hill.	1861	\$35,000	36	15	600								
Atwood's.	George Atwood.	Flowery (Six Mile-Creek).		35,000		16									\$13
Bay State.	Bay State Mill Co.	American Flat.		40,000		23									
Bowers.	L. S. Bowers.	Crown Point Ravine, (G. H.).		160,000		20	{ 10-600 }	9	70					4	14
Central.	J. B. Dickenson.	Virginia.		75,000		13	{ 10-700 }							8	
Crown Point (1).	Crown Point G. & S. M. Co.	Crown Point Ravine, (G. H.).	1862	40,000	35	8	500	9	70					5	14
Cumet (1).	New York & Nevada M. Co.	Gold Hill.		40,000		10								4	14
Douglas (1).	C. S. Wheeler.	Lower Gold Hill.	1862	40,000		10	650	8	78					4	14
Eclipse.	Eclipse M. & M. Co.	Gold Hill.		50,000		15								4	14
Empire State.	Wm. Sharon, Agent.	Seven Mile Cañon.		35,000		15								4	14
Empire No. 1 (1).	W. S. Hobart.	Virginia.	1863	75,000	60	16	650	9	80					5	14
Empire No. 3 (1).	Empire M. & M. Co.	Lower Gold Hill.	1860	80,000	60	16	650	9	80					8	14
Gold Hill.	Gold Hill Q. M. & M. Co.	Gold Hill.	1860	30,000	45	14	{ 6-750 }	7	64					3	14
Gould & Curry.	Gould & Curry M. Co.	Seven Mile Cañon.		380,000		80								20	
Hoover State.	Clark & Hearst.	Virginia.	1862	40,000	20	8	750	9	70					3	14
Imperial.	Imperial S. M. Co.	Lower Gold Hill.	1860	75,000	60	44	600	8						9	14
Lath's.	Charles Lund.	Seven Mile Cañon.		60,000		20								5	14
Mariposa.	J. V. McCurdy.	do.		20,000		(1) 12								4	
Marysville (1).	O'Neal, Rule & Glasier.	Lower Gold Hill.		50,000		9								5	
Ogden.	O. S. Carvill.	Virginia.		50,000		22								6	
Pacific.	Sharon & Co.	Lower Gold Hill.	1863	75,000	80	30	650	10	73					8	14
Petaluma (1).	Greely Bros.	do.		30,000	30	10	700							3	14
Pithe.	M. Livingston.	do.	1863	80,000	60	20	660	10	80					5	14
Rhode Island.	Crown Point G. & S. M. Co.	Gold Hill.	1862	100,000	(1) 150	25	650	10	80					8	14
Rigby's (1).	Rigby & Co.	American Flat.		25,000		10								4	
Rogers's (1).	Rogers S. M. Co.	Seven Mile Cañon.	1862	25,000		8								3	
Sapphires.	W. S. Hobart.	Lower Gold Hill.	1861	60,000	45	16	750	9	80					5	13
Simcoe.	A. Bassett & Co.	Seven Mile Cañon.		35,000		16								5	
Stevenson's (1).	C. O. Stevenson.	Gold Hill.	1860	15,000	(2) 8	5	500	6	76					2	14
Succoe (1).	O'Neal, Rule & Co.	Lower Gold Hill.		50,000		20								6	
Summit.	Mason, Carville & Wright.	Virginia.	(1)	50,000		20	625	70						6	14
Union.	Wm. Kidd.	Gold Hill.	1861	25,000	40	14	{ 10-650 }	10	60					2	14
Winfield.	L. A. Booth.	Seven Mile Cañon.		80,000		18	{ 4-500 }							5	
Total.	33			2,000,000		607								180	
LYON COUNTY.															
Bacon.	Lowe & Fair.	Silver City.	1863	\$85,000	60	20	720	10	75					8	\$1
Birdsall & Carpenter.	Birdsall & Carpenter.	Dayton.	1865	(1) 110,000	30	30	613	9	85	Overshot.	50			1	10
Cole & Co.	Cole & Co.	Johnstown.	1864	10,000	20	5	480	9	65					2	10
Confidence.	Confidence M. Co.	Silver City.	1861	35,000	35	(1) 12	900							5	
Dayton No. 1.	Winters, Kistell & Co.	Dayton.	1861	50,000	10	20	600	10	75	2—central discharge	5	12	1,500	1	8
Dayton No. 2 (1).	do.	do.	1864	40,000	60	15	800	10	75					5	8
Davey.	Daney M. & M. Co.	3 miles from Dayton.	1863	70,000	45	15	550							6	
Eagle.	Stevenson, Winters & Co.	Silver City.	1864		5		400			Overshot.	37		100	1	
Eastern Slope.	Wheeler, Hurd & Dunker.	Below Silver City.	1862	60,000	60	12	1,100	10	50					6	11
Eureka.	John Briggs.	Carson River, near Dayton.	1861	100,000	20	20	650			Turbine.			2,500	3	
Excelsior.	Wm. Sharon, agent.	Johnstown.	1861	25,000	40	10	650							2	
Franklin.	Wm. Sharon, agent.	Carson River, near Dayton.	1861	50,000	10	10	600			Central discharge.			2,500	2	
Gold Cañon Reduction Works.	Wm. Sharon, agent.	Silver City.	1861	40,000	30	15	700	9	75					6	12
Golden Eagle.	O'Neal, Rule & Co.	Carson River, near Dayton.	1861		40	10	850							3	
Illinois.	Wm. Sharon, agent.	do.	1864	30,000	30	20	400							5	10
Imperial (Rock Pt.).	Imperial M. Co.	do.	1861	250,000	50	56	{ 16-600 }	8	80	2—Overshot.	{ 1-14 }	14	3,600	6	10
Inland.	O'Neal, Rule & Co.	do.	1862	40,000	25	10	720			Central discharge.	{ 1-13 }	32	1,800	4	
Monitor.	Hirschman & Co.	Gold Cañon, near Dayton.	1865	6,000	5	5	450				2 4-5	32	1,200	4	
Ophir (New).	Ophir S. M. Co.	Carson River.	1864	75,000	40	24	650			Turbine.	10	14	1,200	1	10
Phoenix No. 1 (1).	Hentsch and Berton.	Below Silver City.	1861	40,000	45	15	650							6	
Pioneer (1).	Sheldon & Hickok.	Silver City.	1861	40,000	45	15	700							6	
Sacramento (1).	Hunt, Woodruff & Co.	Johnstown.	1861	50,000	10	12	750							5	
San Francisco.	Charles Schae.	Carson River, near Dayton.	1861	40,000	30	10	650			Central discharge.	10		1,100	3	
Swansea.	W. Sharon, agent.	Johnstown.	1862	60,000	40	12	900							5	

Tabular list of mills crushing ore from mines and smelters, with the amount of ore crushed during the year 1866—Continued.

Names.	Owners.	Location.	When built.	Tons capacity.	Miles from mine.	Cost of water per month.	Tubs.	PANS.				Settlers.	Agitators.	Breakers.	Grinders.	Crushing capacity per month, tons.	
								Knox.	Wheeler.	Hepburn.	Varney.						
STOREY COUNTY.																	
Atlas	Haggin & Tevis	Lower Gold Hill	1861	25	1	\$250			8		4					750	
Atwood's	George Atwood	Flowery (Six Mile Creek)		20	4			20			2					1,000	
Bay State	Bay State Mill Co.	American Flat		35	2	250			14				1			1,400	
Bowers	L. S. Bowers	Crown Point Ravine, (G. H.)		25	2	100	(1)	30								750	
Central	J. B. Dickenson	Virginia		12	2	100	(1)		(2)	4						670	
Crown Point (1)	Crown Point G. & S. M. Co.	Crown Point Ravine, (G. H.)	1862	6	0	75	6	8			(2)	4				250	
Comet (1)	New York & Nevada M. Co.	Gold Hill		20	0	350							1			600	
Douglas (1)	C. S. Wheeler	Lower Gold Hill	1862	16	1	75										415	
Eclipse	Eclipse M. & M. Co.	Gold Hill		25	0	300				8		4				700	
Empire State	Wm. Sharon, agent	Seven Mile Cañon		15	3		(1)	20	2	2					2	700	
Empire No. 1 (1)	W. S. Hobart	Virginia	1860	30	1	300										800	
Empire No. 2 (1)	Empire M. & M. Co.	Lower Gold Hill	1860	33	1	300			12			6				1,000	
Gold Hill	Gold Hill Q. M. & M. Co.	Gold Hill	1860	17	1	225	(1)	5	24			4				475	
Gould & Curry	Gould & Curry M. Co.	Seven Mile Cañon		100	0					39	3	21				3,500	
Hooder State	Olark & Hearst	Virginia	1862	13	2	200	(1)	24					2			400	
Imperial	Imperial S. M. Co.	Lower Gold Hill	1860	30	1	300		74								1,000	
Land's	Charles Land	Seven Mile Cañon		30	3				10					(B)	1	2	1,000
Mariposa	J. V. McCurdy	do		15	2	150		9	6			(2)	3			600	
Marysville (1)	O'Neale, Rule & Glasier	Lower Gold Hill		18	1	75								2		500	
Ogden	O. S. Carvill	Virginia		20	1				12			4				1,000	
Pacific	Sharon & Co.	Lower Gold Hill	1863	50	1	400			15			(1)	5			1,305	
Petaluma (1)	Greely Bros.	do		12	1	150		18					4	1		300	
Pinto	M. Livingston	do	1863	40	1	300				12		(1)	6		1	1,200	
Rhode Island	Crown Point G. & S. M. Co.	Gold Hill	1862	50	1	400	(2)	13		8		4		2		1,350	
Rigby's (1)	Rigby & Co.	American Flat		12	2	150					5	4				400	
Rogers (1)	Rogers S. M. Co.	Seven Mile Cañon	1862	12	3											360	
Sapphire	W. S. Hobart	Lower Gold Hill	1861	28	1	250		56	(1)	4		2		1	(1)	1	850
Sincoec	A. Bassett & Co.	Seven Mile Cañon		25	3		2		(3)	1		3				700	
Stevenson's (1)	C. O. Stevenson	Gold Hill	1860	5	1	30		10								150	
Succor (1)	O'Neale, Rule & Co.	Lower Gold Hill		28	2	150				9		1		1		600	
Summit	Mason, Carville & Wright	Virginia	(1)	35	1	300			11		(2)	1		4		900	
Union	Wm. Kidd	Gold Hill	1861	14	1	200		14						1		400	
Winfield	L. A. Booth	Seven Mile Cañon		30	3					8		4		(B)	1	1	1,000
Total	33			846	48	5,280	27	305	91	93	9	101	17	4	6	26,820	
LYON COUNTY.																	
Bacon	Lowe & Fair	Silver City	1863	30	3				17			(2)	4			1,900	
Birdsall & Carpenter	Birdsall & Carpenter	Dayton	1865	75	7				20			(2)	10	5	(B)	1	125
Cole & Co. J.	Cole & Co.	Johnstown	1864	5	5				4				3			650	
Confidence	Confidence M. Co.	Silver City	1861	14	2						8	(2)	5	3		500	
Dayton No. 1	Winters, Kistell & Co.	Dayton	1861	20	7				6			(2)	2	(3)	2	800	
Dayton No. 2 (1)	do	do	1864	30	7						8		4	3		500	
Daney	Daney M. & M. Co.	3 miles from Dayton	1863	20	0		\$15									40	
Eagle	Stevenson, Winters & Co.	Silver City	1864	14	3			2				(1)	3			550	
Eastern Slope	Wheeler, Hurd & Dunker	Below Silver City	1862	20	3					6		(1)	5	2	(1)	1	1,100
Eureka	John Briggs	Carson River, near Dayton	1861	22	0			10					1			330	
Excelsior	Wm. Sharon, agent	Johnstown	1861	18	5			18					2			500	
Franklin	Wm. Sharon, agent	Carson River, near Dayton	1861	16	8		5		2							1,600	
Gold Cañon Reduction Works	Wm. Sharon, agent	Silver City	1861	25	3			(1)	7		6						
Golden Eagle	O'Neale, Rule & Co.	Carson River, near Dayton	1861	18	7			24					1			500	
Illinois	Wm. Sharon, agent	do	1864	18	7					6		(1)	2	3		500	
Imperial (Rook Pt.)	Imperial M. Co.	do	1861	90	7		(1)	27		14		(1)	7	3	(B) (2)	1	2,400
Island	O'Neale, Rule & Co.	do	1862	19	7						8		3			500	
Monitor	Hirschman & Co.	Gold Cañon, near Dayton	1865	3	7				2							75	
Ophir (New)	Ophir S. M. Co.	Carson River	1864	40	7					12			6	1		1,200	
Phoenix No. 1 (1)	Henslich & Berton	Below Silver City	1861	20	3								4			550	
Pioneer (1)	Sheldon & Hickok	Silver City	1861	23	2											550	
Sacramento (1)	Hunt, Woodruff & Co.	Johnstown	1861	18	5									1		500	
San Francisco	Charles Schad	Carson River, near Dayton	1861	14	6		(1)	7		3						500	
Swansen	W. Sharon, agent	Johnstown	1862	20	4		(1)	22				3				600	

\*Good will be 1,200 per month.

†750 tons per month; October 15, 1866.

‡Now 2,800 tons.

REPORT  
OF  
J. ROSS BROWNE  
ON THE  
MINERAL RESOURCES  
OF THE  
STATES AND TERRITORIES WEST OF THE ROCKY MOUNTAINS.

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PUBLISHED BY H. H. BANCROFT & CO.,  
SAN FRANCISCO, CALIFORNIA.  
1868.



SFUND RECORDS CTR  
2285091

# MINES AND MILLS OF THE COMSTOCK REGION WESTERN NEVADA

By MARY B. ANSARI

CAMP NEVADA MONOGRAPH No. 8

**Carson River Quartz Mill:** Kelly's 1862 directory reported this mill to be located above Dayton on the Carson River at a site known as Camp Woodworth. The mill's proprietors were Joseph Woodworth, William M. Stewart and John D. Winters. At that time it had 10 stamps, 4 large arastras, and 10 employees and was crushing ore at a rate of 20 tons a day from the proprietors' claim in Gold Hill, known as the Henderson claim. Kelly went on to say that with its several out buildings, the mill give the appearance of being a hamlet. One of the first mills on the Comstock, the Hastings & Woodworth Mill, was earlier located on the same site. Later the New Ophir Mill was built on the same site (Comp, 1980; Kelly, 1862, 218).

**Ophir Mills:** Two mills which were situated on the Carson River above Dayton and below the Island Mill. In 1865 the New Ophir Mill was listed as being owned by the Ophir Mining Co. of Virginia City, as having 24 stamps and 15 pans, burning 4 cords of wood per week, employing 15 men, and reducing 35 tons of Yellow Jacket ore a day. It was built on the site of the Carson River Quartz Mill. In 1866 it was listed as being powered by steam and water, as using 2 1/2 cords of wood a day, and as having the same number of stamps and pans and same capacity as in 1865. The 1875 map of the survey of the Virginia & El Dorado Railroad shows an Old Ophir Mill located above the New Ophir Mill. In 1868 the New Ophir Mill was owned by William Sharon's Bank of California. It operated as a tailings mill from 1873-1883, at which time it was owned by Fair and Mackay (Comp, 1980; GHN, 1865, June 5, 3:2; Map of Survey of the Virginia & El Dorado Narrow Gauge Railroad, 1875; SMR, 1866, TE, 1868, Jan. 21, 1:2).

**Woodworth Mill:** Shown on Wheeler's 1876-77 map as situated on the northwest bank of the Carson River approximately one mile above Dayton. The 1869-70 *State Mineralogist's Report* reported it to be a 24-stamp mill with 12 pans, and in the early 1870s it was listed as having the same number of stamps and a 48-ton capacity (SMR, 1869-70, 15; 1871-72, 100; Wheeler, 1876-77, map).

**Sprouls Mill:** Small Carson River mill which was located above Dayton between the Barton & Co. and Carson River Quartz mills. In Kelly's 1862 directory it was listed as Sproul & Co.'s Excelsior Mill and reported to have 10 stamps and 20 Hungarian pans, to employ 15 men, and to process ore from the proprietors' Gold Hill claim. The proprietors were J.R. Sproul, C.C. Goodwin, Levi Hite, and J.R. Brett. The mill and dam cost approximately \$5,000 (Bancroft, 1862, map; Kelly, 1862, 218).

**Birdsall & Carpenter Mill:** Dayton mill reported in 1865 to have 20 stamps and 10 pans, to burn 1 cord of wood a day, to reduce 30 tons a day, and to employ 10 men. In the 1866 *State Mineralogist's Report* it was listed as a water-powered mill using 2 cords of wood a day and having 30 stamps, 20 Wheeler pans, and a capacity of 55 tons a day. In the 1869-70 *State Mineralogist's Report* it was reported to have 30 stamps and 40 pans, and in the early 1870s it had been converted to a tailings mill with a capacity of 300 tons per day. The buildings were torn down in the early 1900s (Comp, 1980; GHN, 1865, June 5, 3:2; SMR, 1866, 149; 1869-70, 14; 1871-72, 100).

**Sutro Mill:** When Adolph Sutro, later of Sutro Tunnel fame, first settled on the Comstock, he operated this mill, which was located slightly below Dayton between the Solomon Davis and Old Dayton mills. It was erected in 1861 and was one of the early mills in the area. Kelly's 1862 directory reported it to have 10 stamps and a 12-ton-a-day capacity and to employ 10 men. At that time it was processing ore from the Gould & Curry Mine in Virginia City. The mill burned in 1863, and it was rumored that the fire had been deliberately set in order to collect the insurance. An account in the *Territorial Enterprise* in 1874 relates that Sutro never was indicted for arson in Lyon County even though there was a Grand Jury investigation at the time. One man died in the fire, and the property was

BULK 1145		1863-65		7. OWNER/ADMIN	
8. NAME(S) OF STRUCTURE				9. OWNER'S ADDRESS	
ORPHIR MILL/WOODWORTH MILL					
10. STATE	N	V	COUNTY NAME	DAYTON	CONG. DIST.
COUNTY					
11. SITE ADDRESS (STREET & NO)			12. EXISTING SURVEYS		
Carson River			<input type="checkbox"/> NR <input checked="" type="checkbox"/> NHL <input type="checkbox"/> HABS <input type="checkbox"/> HAER-I <input type="checkbox"/> HAER <input type="checkbox"/> NPS <input type="checkbox"/> CONF <input type="checkbox"/> STATE <input type="checkbox"/> COUNTY <input type="checkbox"/> LOCAL <input type="checkbox"/> OTHER		
13. SPECIAL FEATURES (DESCRIBE BELOW)			<input type="checkbox"/> INTERIOR INTACT <input type="checkbox"/> EXTERIOR INTACT <input type="checkbox"/> ENVIRONS		

14. UTM ZONE	EASTING	NORTHING	SIGN	SCALE	<input type="checkbox"/> 1:24 <input type="checkbox"/> 1:62.5 <input type="checkbox"/> OTHER	QUAD NAME
	2 7 6 1 0 0	4 3 4 4 8 0 0				
UTM ZONE	EASTING	NORTHING	SIGN	SCALE	<input type="checkbox"/> 1:24 <input type="checkbox"/> 1:62.5 <input type="checkbox"/> OTHER	QUAD NAME
15. CONDITION				16. INVENTORIED BY		
70 <input type="checkbox"/> EXCELLENT 71 <input type="checkbox"/> GOOD 72 <input type="checkbox"/> FAIR 73 <input type="checkbox"/> DETERIORATED 74 <input type="checkbox"/> RUINS 75 <input type="checkbox"/> UNEXPOSED 76 <input type="checkbox"/> ALTERED 82 <input type="checkbox"/> DESTROYED 85 <input type="checkbox"/> DEM				AFFILIATION HAER		
17. DESCRIPTION AND BACKGROUND HISTORY, INCLUDING CONSTRUCTION DATE(S), HISTORICAL DATE(S), PHYSICAL DIMENSIONS, MATERIALS, EXTANT EQUIPMENT, AND IMPORTANT BUILDERS, ENGINEERS, ETC.				DATE July 1980		

**1980 Comstock Project**

The Ophir Mill was built on the Carson River south of Dayton on the site of the Carson River Mill. The site was purchased by the Ophir Company in 1863 for their large scale operation. The mill was operated by both steam and water power and was equipped with twenty-four stamps, working ore from the Yellow Jacket and Ophi mines. In 1868, the mill had twenty stamps and was owned by the Bank of California. In 1871, a large water wheel was installed and a major overhaul completed. The mill commenced working slimes and tailings in 1872 and continued to operate on tailings until at least 1883, at which time it was owned by Mackay & Fair. Present condition undetermined.

SOURCE: THE COMSTOCK, AN INVENTORY OF HISTORIC & NATURAL SITES

18. ORIGINAL USE		PRESENT USE		ADAPTIVE USE	
Quartz Mill					
19. REFERENCES—HISTORICAL REFERENCES, PERSONAL CONTACTS, AND/OR OTHER					
Second Directory of the Nevada Territory, 1863, p. 302. Gold Hill News, June 5, 1865 p. 3. Report of the Nevada State Mineralogist, 1866, p. 149. Territorial Enterprise, 1868, 1871, 1873.					
20. URBAN AREA 50,000 POP. OR MORE?		21. HCRS REGION		22. PUBLIC ACCESSIBILITY	
<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				<input type="checkbox"/> YES, LIMITED <input type="checkbox"/> YES, UNLIMITED <input type="checkbox"/> NO <input type="checkbox"/> UNKNOWN	
24. LOCATED IN AN HISTORIC DISTRICT?		NAME			
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Virginia City National Historic Landmark			
23. EDITOR INDEX		DISTRICT I.D. NO			



SOURCE: MINES & MILLS OF THE  
COMSTOCK REGION  
WESTERN NEVADA

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UNIVERSITY OF NEVADA BULLETIN

Vol. XXXVII

NOVEMBER 1, 1943

No. 4

GEOLOGY AND MINING SERIES No. 39

NEVADA'S METAL AND MINERAL  
PRODUCTION  
(1859-1940, Inclusive)

By BERTRAND F. COUCH, Secretary

and

JAY A. CARPENTER, Director

NEVADA STATE BUREAU OF MINES

PAPER 70 Pp., 100 PAGES



PUBLICATION OF THE NEVADA STATE BUREAU OF MINES  
AND THE MACEAY SCHOOL OF MINES  
JAY A. CARPENTER, Director

— NV Metal & Mineral Production \$4.00

## PROPERTIES REPORTING PRODUCTION OF \$5,000 OR MORE—Continued

	Period	Tons	Gross yield
Humphries, D. W.....	1872-1875	1,206	\$18,900
Independence Mining Co.....	1887-1891	4,774	314,452
Jackson Mill.....	1898-1903	.....	32,663
Jan, Lewis, Jr.....	1871	9,038	93,905
Jaqua Brooks & Co.....	1884-1887	.....	15,750
Kelsey Mill.....	1872-1875	.....	13,400
Keystone Mill.....	1871-1875	.....	80,648
King, Carrie.....	1935	.....	6,017
Likens, & Rulison.....	1871-1874	1,432	12,366
Little Bonanza.....	1883-1884	.....	5,300
Lyon Mining & Milling Co.....	1873-1878	147,795	605,586
Milwaukee Mine.....	1903-1909	2,003	40,572
Nevada Mining Red. & Power Co..	1907-1911	17,512	192,810
Nevada Reduction Works.....	1903-1907	.....	138,609
Oest Mining Company.....	1887-1892	6,588	564,364
Ora-Neva Dredge.....	1940	.....	127,577
Pacific Mill Company.....	1878	.....	70,000
Park & Douglas.....	1871-1873	.....	66,169
Phillips, J. W.....	1905-1911	.....	58,757
Pollard & Trimble.....	1905-1907	.....	28,328
Quimby & Company.....	1871	5,400	21,600
Rodgers & Trotter.....	1871	5,211	54,740
Sacramento Mill.....	1872	.....	323,474
Schlumber Bros.....	1884	886	16,411
Smith & Crowe.....	1936-1940	11,573	74,423
South Comstock Gold Mines Co....	1934-1940	66,372	588,174
Stevenson.....	1883	302	6,057
Silver City Reduction Works.....	1900-1902	.....	18,457
Three Brothers.....	1906	396	5,503
Trench Mill.....	1871-1878	.....	343,840
Trimble & Hamilton.....	1919	.....	13,806
Trimble, R. A.....	1920-1922	.....	38,554
Union Mining & Milling Co.....	1871-1878	29,500	333,716
Western Empire Mining Co.....	1933-1934	1,922	32,502
Woodbury, J. P.....	1905-1919	.....	48,803
Woodworth Mill.....	1871-1892	39,138	876,139
SPRING VALLEY—			
Spring Valley Mining Co.....	1934	2,064	29,400
PALAPOOSA—			
Rhodes-Gilbert Lease.....	1940	783	9,586
MERRINGTON (Ludwig, Mason)—			
Ambassador Gold Mines.....	1936-1937	18,668	99,857
Bluestone Mining & Smelting Co..	1917-1920	400,133	3,570,673
Douglas Mine.....	1883-1891	.....	271,804





## PROPERTIES REPORTING PRODUCTION OF \$5,000 OR MORE—Continued.

	Gross yield		Period	Tons	Gross yield
12,743	\$257,506	Pittsburg-Dolores.....	1915-1917	42,597	\$263,071
12,225	34,554	Wheeler Mine.....	1873-1878	6,038	165,911
12,626	357,855	Wilson Mine.....	1870-1899	7,623	220,368
12,040	2,877,887	RAMSEY—			
12,649	4,237,541	Hills of Home Mining Co.....	1939-1940	4,246	240,107
12,849	397,823	Hully-Logan Lease.....	1940	3,220	97,327
12,073	133,613	Lahontan Mining Company.....	1936	3,371	19,157
12,094	98,834	Ranier Investment & Mining Co....	1933-1934	224	16,734
12,559	23,497	SILVER CITY—			
12,095	15,515	Atlanta Mill.....	1871-1884		366,464
12,088	513,977	Bacon.....	1877-1878		331,818
12,727	1,598,674	Beill, Jas.....	1888	1,400	6,650
12,438	1,627,463	Birdsall, F. & Co.....	1871-1877		723,564
12,441	557,910	Briggs, John.....	1872-1873	2,931	16,271
12,502	31,070	Buckeye Mine.....	1871-1939	19,367	187,255
12,931	30,854	Carson Mill.....	1871-1873		696,010
12,938	32,792	Comstock Milling & Mining Co.....	1901-1922		107,397
12,225	18,393	Comstock Tunnel Co.....	1901-1908	34,628	59,466
12,551	85,139	Dalzell Mill.....	1904		226,300
	92,367	Darwin, George W.....	1874-1875	525	8,712
	29,031	Davis Mill.....	1898-1902		76,331
	34,554	Dayton Consolidated Mines.....	1934-1940	194,070	2,160,819
		Dayton Douglas Cyanidation Co..	1935-1940		191,196
		Dayton Gold-Silver Mining Co....	1871-1875	30,588	315,001
		Dayton Placers.....	1917		20,194
		Dayton Syndicate.....	1928		42,890
		Desert Mill.....	1871-1874		296,094
		Donovan, Wm.....	1909-1925		176,767
		Dunson & Pollard.....	1905		8,819
		Eureka Mill.....	1871-1902		380,472
		Excelsior Mill.....	1871-1891		228,118
		Fair, Mackay & Company.....	1874		7,000
		Fitch, A. B.....	1888	2,350	7,400
		Franklin & Evans.....	1935-1938	4,874	43,307
		Franklin Lease.....	1934-1940	5,866	52,933
		Franklin Mine.....	1883-1891		26,813
		French & Witcher.....	1874-1878		45,493
		Fulton-York Lease.....	1938-1939	224	12,859
		Gold Canyon Cyanide Plant.....	1900-1903		22,603
		Gold Canyon Dredging Co.....	1920-1923		307,259
		Great Republic.....	1891-1892	152	19,719
		Hamilton & Pollard.....	1913-1914		18,734
		Hardwick & Trimble.....	1929-1938		40,101
		Haywood Gold & Silver			
		Mining Co.....	1887-1891	4,774	314,452
		Hill, W. H. & Co.....	1871	882	7,737

UNKNOWN

185 \$2,497

A TOTAL

Tons Gross yield

14,956 \$97,135

18,376 391,062

18,076 76,993

12,000 7,655

12,104 8,095

12,36 1,113

451,982

12,747 74,503

12,443 43,037

12,336 8,883

# *d Mineral Production*

TON OF \$5,000 OR MORE—Continued		
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1873-1878	147,795	605,586
1903-1909	2,003	40,572
1907-1911	17,512	192,810
1903-1907	.....	138,609
1887-1892	6,588	564,364
1940	.....	127,577
1878	.....	70,000
1871-1873	.....	66,169
1905-1911	.....	58,757
1905-1907	.....	28,328
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1871-1878	.....	343,840
1919	.....	13,806
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1871-1892	39,138	876,139
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1940	783	9,586
1936-1937	18,668	99,857
Co. 1917-1920	400,133	3,570,673
1883-1891	.....	271,804

## *Lyon County*

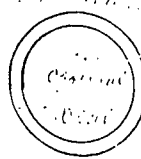
97

PROPERTIES REPORTING PRODUCTION OF \$5,000 OR MORE—Continued			
Period	Tons	Gross yield	
Empire Mining, Milling and Smelting Company.....	1918-1919	11,083	\$95,647
Gypsum Quarry.....	1933	.....	16,577
Ludwig Mining Company.....	1906-1907	3,035	184,029
McConnell Mining Company.....	1912-1913	14,702	106,785
Mason Valley Mines Co.....	1912-1929	1,701,794	7,735,881
Montana-Yerington Copper Co.....	1913-1917	834	10,744
Nevada Douglas.....	1907-1926	454,637	4,265,942
Regan Bros.....	1935-1940	30,991	122,277
Sonne & Elbert.....	1912	5,888	44,756
Standard Gypsum Co.....	1923-1929	.....	399,942

as of and claimed and by these persons named above and by their  
claim unto the said party of the first part and to his heirs and assigns  
all that certain lot piece or parcel of land situated in the City and  
Town of Silver City County of Lyon State of Nevada the said land and  
particulars described as follows to wit: Beginning at the South  
East corner of Block Number fourteen (14) and running North and  
the Northern line of South Street twenty feet to a point then at a right angle  
Northwesterly seventy feet to a point then at a right angle  
Northerly six (6) feet to the Western line of Gay Street then  
along the Western line of Gay Street seventy (70) feet to a point  
beginning together with all and singular the tenements buildings  
and appurtenances thereunto belonging or in anywise appertaining  
the reversion and reversions remainder and remainderments issue and  
profits thereof and also all the estate right title interest property power  
privilege and demand whatsoever as well in law as in equity of the  
said party of the first part of in or to the said premises and every part and  
parcel thereof with the appurtenances. To Have and to hold all and  
singular the said premises together with the appurtenances unto the said  
party of the first part and to his assigns and his successors in office from  
and after the day and year first above written  
Witness my hand and seal this day of December in the  
year of our Lord one thousand eight hundred and eighty five

Samuel A. Chapin

State of California } ss  
City and County of San Francisco On this Twenty Seventh day of Novem-  
ber A.D. one thousand eight hundred and Seventy five before me  
Judge of the Peace for the State of Nevada in and for the  
County of Lyon duly commissioned and sworn personally appeared  
the within named Samuel A. Chapin whose name is subscribed to the  
above instrument as a party thereto personally known to me to be  
the individual described in and who executed the said annexed instru-  
ment and who acknowledged to me that he executed the same freely  
and voluntarily and for the uses and purposes therein mentioned  
I Witness whereof I have hereunto set my hand and affixed  
my official Seal the day and year in this Certificate first  
above written



E. H. Joyce Commissioner  
of Nevada For the State of Nevada  
Tested and signed at North Platte December 13th A.D. 1875 at 8 PM

H-284

Recorder of Lyon County Nevada  
12/15/1875 1/2 MILL SOLD BY W.S. HOBART  
TO THE NEVADA BANK OF  
SAN FRANCISCO FOR \$30,000

This indenture made the fifteenth day of December in the year of our Lord  
one thousand eight hundred and Seventy five Between W. S. Hobart of  
Virginia City Store County Nevada party of the first part and the Nevada

Barber of the first part, the party of the second part - Witnesseth that the said party of the first part for and in consideration of the sum of Three thousand Dollars - Dollars Gold Coin of the United States of America to him on hand paid by the said party of the second part - the receipt whereof is hereby acknowledged has granted bargained sold conveyed remised released and forever quit claimed and by these presents does grant bargain sell convey remise release and forever quit claim unto the said party of the second part and to its successors and assigns all the right title interest estate claim and demand both at law and in equity and as well in possession as in expectancy of the said party of the first part of in and to all that certain lot piece or parcel of land situated lying and being in the County of Lyon State of Nevada and bounded and particularly described as follows to wit: All of an undivided one half of that certain Mill site with the Quartz Mill and machinery therein and the Water privilege heretofore enjoyed therewith formerly owned by the Ophir Silver Mining Company and by said Company heretofore conveyed to the party of the first part by Deed now of Record in the office of the County Recorder of Lyon County Nevada which said Mill site is situated on the Carson River in said County of Lyon about 1 1/4 miles above the town of Dayton and containing 52 1/2 Acres more or less Said Quartz Mill was formerly known as the Woodworth Mill Together with all and singular the tenements hereditaments and appurtenances thereunto belonging or in anywise appertaining and the rents issues and profits thereof To have and to hold all and singular the said premises together with the appurtenances unto the said party of the second part its successors and assigns forever


In Witness Whereof the said party of the first part has hereunto set his hand and seal the day and year first above written

Signed Sealed and Delivered in }  
Presence of } M. S. Hobart (Seal)  
\_\_\_\_\_

In Witness Whereof the said party of the first part has hereunto set  
his hand and seal the day and year first above written  
signed sealed and delivered in } W. S. Hobart (Seal)  
Presence of \_\_\_\_\_

M. S. Hobart

State of Nevada } ss.  
County of Storey } On this fifteenth day of December 1881 one thousand and  
eight hundred and seventy five personally appeared before me H. L. Gay  
a Notary Public in and for the said County of Storey H. D. Stewart  
whose name is subscribed to the annexed instrument as a party thereto  
to personally known to me to be the same person described in and  
who executed the said annexed instrument as a party thereto and  
he duly acknowledged to me that he executed the same freely and  
voluntarily and for the use and purposes therein mentioned.


 In Witness whereof I have hereunto set my hand and affixed  
 my official seal the day and year in this certificate first  
 above written.

18. 11. Dec.

Salary Table

Recorded at request of Wells Fargo & Co. December 26th 1875 at 2 min past 4 P.M.

G. H. Gifford

Recorder of Lyon County Nevada



John W. Fairer Notary Public  
Recorded of Deed of December 23d A.D. 1875 at 4 o'clock  
J. S. Gilpin  
Recorder of Lyon County Nevada

12/22/1875

This instrument made the twenty second day of December in the year of our Lord one thousand eight hundred and seventy five Between James G. Fair of the City of Virginia Storey County Nevada of the first part and Pacific Mail and Mining Company a Corporation of the State of California the party of the second part Witnesseth that the said party of the first part for and in consideration of the sum of One Dollar gold coin of the United States of America to him in hand paid by the said party of the second part the receipt whereof is hereby acknowledged has united released and forever quit-claimed and by these presents does assign release and forever quit-claim unto the said party of the second part and to its successors heirs and assigns all the undivided one half part of that certain tract of land lying and being situate in Lyon County State of Nevada and more particularly described as The South West quarter of the North West quarter of Section numbered twenty six (26) in Township numbered section (16) North of Range numbered twenty one (21) East of Monie. Public Base and Meridian Together with all and singular the tenements hereditaments and appurtenances thereto belonging or in anywise appertaining and the reversion and reversionary remainder and remainders unto issues and profits thereof and also all the estate right title interest property possession claim and demand what soever as well in law as in equity of the said party of the first part of in or to the said premises and every part and parcel thereof with the appurtenances to have and to hold all and singular the said premises together with the appurtenances unto the said party of the second part and to its successors heirs and assigns forever In Witness whereof the said party of the first part has hereunto set his hand and seal the day and year first above written signed sealed and delivered in the presence of James G. Fair

State of Nevada ) ss  
County of Storey ) On this Twenty second day of December A.D. one thousand eight hundred and seventy five personally appeared before me R. V. Day a Notary Public in and for the said County of Storey of J. S. Fair whose name is subscribed to the annexed instrument as a party thereto personally known to me to be the same person who executed the said annexed instrument as a party thereto and he duly acknowledged to me that he executed the same freely and voluntarily and for the uses and purposes herein mentioned



This instrument made the Twenty second day of December A.D. one thousand  
eight hundred and seventy five between the undersigned James H. Shaw of the County  
of Virginia Storey County Nevada party of the first part and the Bank of  
San Francisco a corporation of the State of California the party of the second  
part Witnesses That the said party of the first part for and in consideration of  
the sum of One Dollar gold coin of the United States of America to him here  
paid by the said party of the second part the receipt whereof is hereby acknowledged  
has remised released and forever quitclaimed and by these presents does release  
release and forever quitclaim unto the said party of the second part and to its  
successors heirs and assigns all the undivided one half part of that certain tract  
of land lying and being situated in Lyon County State of Nevada and more particu-  
larly described as The South West quarter of the North West quarter of section num-  
bered twenty six (26) in Township numbered sixteen (16) North of Range num-  
bered twenty one (21) East of Monte Diablo Base and Meridian Together with all  
and singular the tenements hereditaments and appurtenances thereunto belonging  
or in anywise appertaining and the accretions and accessions remain due and remain-  
ing to be issued and paid therefor and also all the estate right title interest  
property possession claim and demand whatsoever as well in law as in equity  
of the said party of the first part of in or to the said premises and every part and parcel  
thereof with the appurtenances To Have and to hold all and singular the said  
premises together with the appurtenances unto the said party of the second part  
to its successors heirs and assigns forever  
In Witness Whereof the said party of the first part has hereunto set his hand  
and seal the day and year first above written  
Signed sealed and delivered in the  
Presence of

James H. Shaw

12/22/1875

State of Nevada

County of Storey On this Twenty second day of December A.D. one thousand  
eight hundred and seventy five personally appeared before me R. N. Dey a Notary  
Public in and for the said County of Storey James H. Shaw whose name is  
subscribed to the annexed instrument as a party thereto personally known  
to me to be the same person described in and who executed the said annexed  
instrument as a party thereto and he duly acknowledged to me that he executed  
the same freely and voluntarily and for the uses and purposes therein mentioned  
In Witness Whereof I have hereunto set my hand and affixed my official  
seal the day and year in this certificate first above written  
R. N. Dey  
Notary Public



Record of Deeds of Miller & Co. for Deeds & C. O. Miller & Co. for Deeds  
J. S. Gilman  
Recorder of Lyon County Nevada

617

This indenture made the second day of December in the year of our Lord one thousand eight hundred and seventy five Between Charles O. Damon of Dayton Nevada of the first part & Michael R. Martin of Virginia Nevada the party of the second part, Witnesseth, That the said party of the first part, for and in consideration of the sum of One Thousand Dollars of the United States of America, to him on hand paid by the said party of the second part, the receipt whereof is hereby acknowledged, has remised, released and forever quit claimed, and by these presents does remise, release, and forever quit claim unto the said party of the second part, and to his heirs and assigns, forever all that certain undivided  $\frac{3}{10}$  of that Ditch in County of Esmeralda & Lyon & State of Nevada and bounded and particularly described as follows, to wit: The Three Tenth undivided interest of said Damon in unto the Gold Hill Ditch in Masons Valley - part of said Ditch being in Esmeralda & part in Lyon County - Commencing at a point on the westerly side of Walker River & runs down in Co. Lyon County & was made by the Gold Hill Ditch Company about 14 years ago. It was divided into Ten Shares; & this is to convey the undivided  $\frac{3}{10}$  interest of said Damon in said Ditch & the water flowing through the same & all his interest & claim in & to said Ditch. Together with all and singular the tenements, hereditaments and appurtenances therunto belonging, or in anywise appertaining, and the reversion, and reversions, remainder, and remainders, rents, issues and profits thereof; and also all the estate, right, title, interest, and property, possession, claim and demand whatsoever, as well in law as in equity, of the said party of the first part, of, in or to the said premises, and every part and parcel thereof, with the appurtenances. To Have and to Hold, all and singular, the said premises, together with the appurtenances, unto the said party of the second part, and to his heirs and assigns forever.

In Witness Whereof the said party of the first part has hereunto set his hand and seal the day and year first above written.  
Signed Sealed and Delivered in the presence of } Charles O. Damon Seal  
J. S. Gilman

8. NAME(S) OF STRUCTURE

ORPHIR MILL/WOODWORTH MILL

9. OWNER'S ADDRESS

10. STATE COUNTY

N V

COUNTY NAME

Lyon

CITY/VICINITY

Dayton

CONG. DIST.

1

11. SITE ADDRESS (STREET &amp; NO.)

Carson River

12. EXISTING SURVEYS

☐ NR☒ NHL☐ HABS☐ HAER-I☐ HAER☐ NPS☐ CL6☐ CONF☐ STATE☐ COUNTY☐ LOCAL☐ OTHER

13. SPECIAL FEATURES (DESCRIBE BELOW)

☐ INTERIOR INTACT☐ EXTERIOR INTACT☐ ENVIRONS INTACT

14. UTM ZONE

EASTING

NORTHING

SIGN

SCALE

☐ 1:24☐ 1:62.5☐ OTHER

QUAD NAME

UTM ZONE

EASTING

NORTHING

SIGN

SCALE

☐ 1:24☐ 1:62.5☐ OTHER

QUAD NAME

15. CONDITION

70 ☐ EXCELLENT71 ☐ GOOD72 ☐ FAIR73 ☐ DETERIORATED74 ☐ RUINS75 ☐ UNEXPOSED76 ☐ ALTERED82 ☐ DESTROYED85 ☐ DEMOLISHED

16. INVENTORIED BY

AFFILIATION

HAER

DATE

July 1980

17. DESCRIPTION AND BACKGROUND HISTORY, INCLUDING CONSTRUCTION DATE(S), HISTORICAL DATE(S), PHYSICAL DIMENSIONS, MATERIALS, EXTANT EQUIPMENT, AND IMPORTANT BUILDERS, ENGINEERS, ETC.

The Ophir Mill was built on the Carson River south of Dayton on the site of the Carson River Mill. The site was purchased by the Ophir Company in 1863 for their large scale operation. The mill was operated by both steam and water power and was equipped with twenty-four stamps, working ore from the Yellow Jacket and Ophir mines. In 1868, the mill had twenty stamps and was owned by the Bank of California. In 1871, a large water wheel was installed and a major overhaul completed. The mill commenced working slimes and tailings in 1873 and continued to operate on tailings until at least 1883, at which time it was owned by Mackay & Fair. Present condition undetermined.

(CONT OVER)

18. ORIGINAL USE

Quartz Mill

PRESENT USE

ADAPTIVE USE

19. REFERENCES—HISTORICAL REFERENCES, PERSONAL CONTACTS, AND/OR OTHER

Second Directory of the Nevada Territory, 1863, p.302.

Production of Gold and Silver in the U.S., 1883, p. 538.

Gold Hill News, June 5, 1865 p. 3.

Report of the Nevada State Mineralogist, 1866, p. 149.

Territorial Enterprise, 1868, 1871, 1873.

(CONT OVER)

20. URBAN AREA 50,000 POP. OR MORE?

☐ YES☒ NO

21. HCRS REGION

22. PUBLIC ACCESSIBILITY

☐ YES, LIMITED☐ YES, UNLIMITED☐ NO☐ UNKNOWN

23. EDITOR INDEXER

24. LOCATED IN AN HISTORIC DISTRICT?

☒ YES☐ NO

NAME

Virginia City National Historic Landmark

DISTRICT I.D. NO



NAME.	Motive Power.	Cards Worked per Day.	No. of Stamps.	Weight of Stamps.	No. of Pans.	Nature of Pans.	Crushing Capacity per Day. Tons.	REMARKS.
STOREY COUNTY.								
Atlas.....	steam	4½	15	600	8	Hepburn	25	
Atwood.....	"	4½	16		26-2	Knox, Wheeler	20	
Bay State.....	"	6	23		14	Wheeler	35	
Bower's.....	"	4	20	10-600 10-700	30	Knox	25	
Central.....	"	8	13		4	Hepburn	12	
Crown Point.....	"	5	8	500	8	Knox	8	
Comet.....	"	4½	16				20	
Douglas.....	"	4	10	650	28	Plain	16	
Eclipse.....	"	4	15		8	Hepburn	25	
Empire, No. 1.....	"	5½	21	650	29		30	
Empire, No. 2.....	"	8	16	650	12	Wheeler	32	
Empire State.....	"	5	15		20-2-2	Knox, Wheeler, Hepburn	15	
Gold Hill.....	"	3	14	8-600 6-750	24	Knox	17	
Granite.....	"							
Gould & Curry.....	"	20	80		39-3	Hepburn, Varney	100	Refitting.
Hoosier State.....	"	3½	8	750	24	Knox	12	
Imperial.....	"	6	44	600	74	Knox		
Land's.....	"	5½	20		10	Wheeler	30	
Mariposa.....	"	4	12		2-6	Knox, Wheeler	15	
Marysville.....	"	5	9		30	Plain	18	
Ogden.....	"	6	22		12	Wheeler	20	
Pacific.....	"	8	30	650	15	Wheeler	50	
Petaluma.....	"	3½	16	700	18	Knox	26	
Piute.....	"	5½	20	650	12	Hepburn	30	
Rhode Island.....	"	8	25	650	13-8	Knox, Hepburn	40	
Rigby's.....	"	4	10		5	Varney	12	
Rogers'.....	"	3½	8				12	
Sapphire.....	"	5	16	750	56	Knox	28	
Simcoe.....	"	5	16		8	Tubs, Wheeler, Hepburn	25	
Stevenson's.....	"	2½	8	500	10	Knox	10	
Succor.....	"	6	20				26	

NEVADA STATE  
MINEROLOGIST  
BIENNIAL  
REPORT  
1866

Summit.....	"	6	20	625	11-1	Wheeler, Varney	35	
Union.....	"	2½	14	10-650 4-500	14		14	
Winfield.....	"	5	18		8	Hepburn	30	
LYON COUNTY.								
Birdsall & Carpenter.....	water	2	30	650	20	Wheeler	55	
Bacon.....	steam	6	20	550	17	Wheeler	30	
Bartolo.....	"	3	8	550	8	Knox	9	
Cole & Co.....	"	3	5	480	4	Wheeler	3	
Devil's Gate.....	"	5	8	900	10	Hepburn	14	
Dancy.....	"	6	15	550	15	Wooden Tubs	20	
Dayton, No. 1.....	water	1	20	500	6	Wheeler	20	
Dayton, No. 2.....	steam	6	15	800	8	Varney	15	
Eagle.....	water		5	400	2	Knox	15	
Eastern Slope.....	steam	5½	16	890	6	Hepburn	20	
Excelsior.....	"	3	10	650	18	Knox	18	
Eureka.....	water		20	650	8	Wheeler	22	
Franklin.....	"	4	10	600	8	Knox	12	
Golden Eagle.....	steam	3½	10	850	25	Tubs	13	
Illinois.....	"	5	20	400	5	Hepburn	20	
Island.....	"	2	19	650	11	Tubs	14	
Lindauer & Co.....	st'm & water	2½	15	480	10	Wheeler	20	
Metallurgical Works.....	steam	5	15	700	6	Wheeler	16	
Monitor.....	water		5	450	2	Wheeler	3	
New York & Nevada.....	steam	5½	20	550	17	Hepburn	25	
Ophir.....	st'm & water	2½	24	600	15	Hepburn	35	
Pioneer.....	steam	6	15	700	15	Tubs and Wheeler	20	
Phoenix, No. 1.....	"	6	15	650	8	Tubs and Wheeler	19	
Phoenix, No. 2.....	"	7	20	534	34	Tubs	28	
Palmyra.....	"	4½	10	650	12	Tubs	15	
Rock Point.....	st'm & water	2½	56	550	50	Tubs and 6 Hepburn	60	
Sparrow & Trench.....	steam	6	20	600	19		25	
Sherman & Co.....	water		5	400	2		4	
Swansca.....	steam	5	14	900	22	Tubs	20	
Smith, D. L.....	water		5	450	4	Tubs	4	
Sacramento.....	steam	5	12	750	12	Tubs	18	
San Francisco.....	st'm & water	3	10	650	7	4 Tubs and Wheeler	14	
Weston & Co.....	steam	4	15	550	9	Wheeler	14	
Weston & Co.....	water		10	450	8	Tubs	11	

Dismantled.

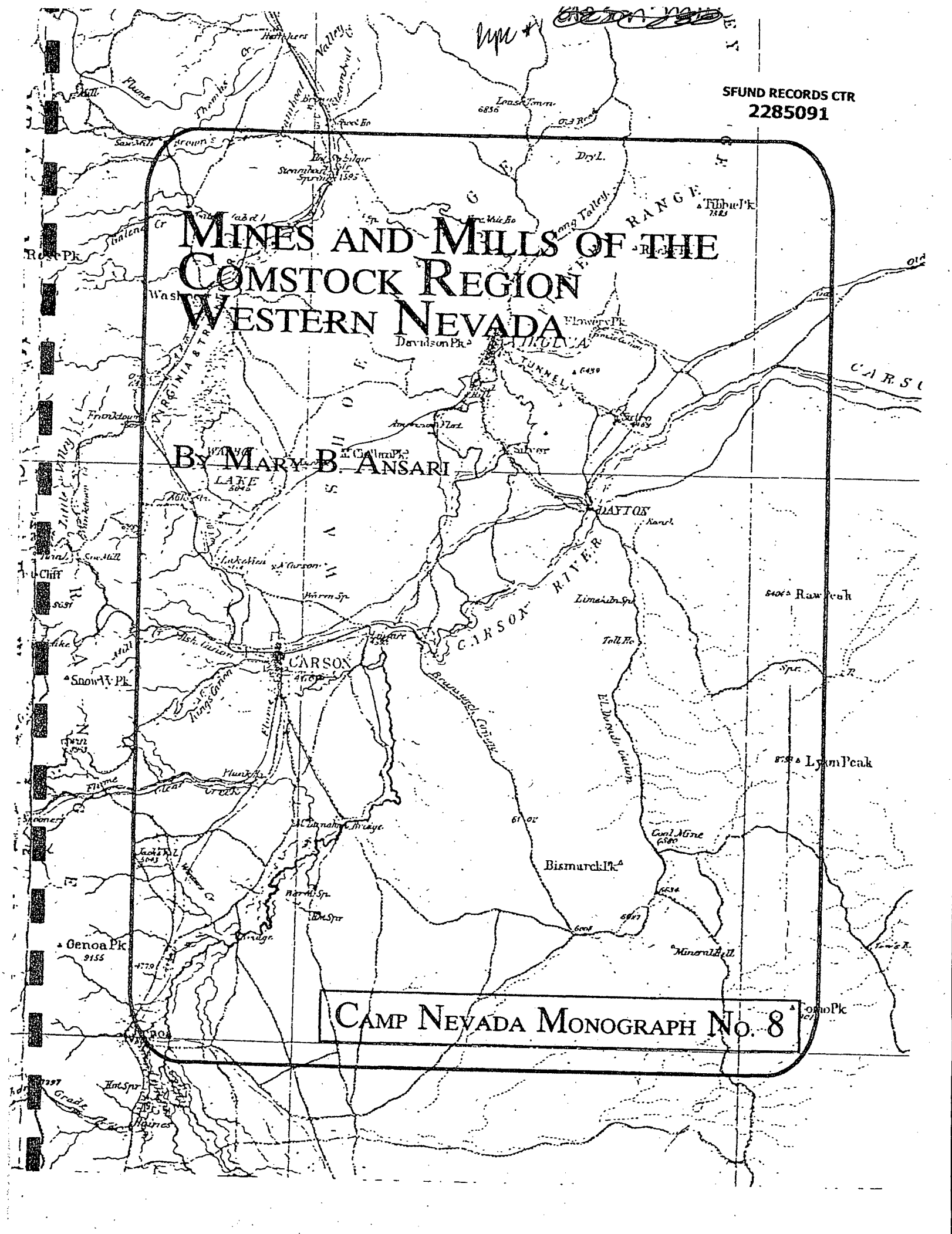
One of these Mills destroyed by fire during  
1866.

SFUND RECORDS CTR  
2285091

# MINES AND MILLS OF THE COMSTOCK REGION WESTERN NEVADA

By MARY B. ANSARI

CAMP NEVADA MONOGRAPH No. 8





**Carson River Quartz Mill:** Kelly's 1862 directory reported this mill to be located above Dayton on the Carson River at a site known as Camp Woodworth. The mill's proprietors were Joseph Woodworth, William M. Stewart and John D. Winters. At that time it had 10 stamps, 4 large arastras, and 10 employees and was crushing ore at a rate of 20 tons a day from the proprietors' claim in Gold Hill, known as the Henderson claim. Kelly went on to say that with its several out buildings, the mill gave the appearance of being a hamlet. One of the first mills on the Comstock, the Hastings & Woodworth Mill, was earlier located on the same site. Later the New Ophir Mill was built on the same site (Comp, 1980; Kelly, 1862, 218).

**Ophir Mills:** Two mills which were situated on the Carson River above Dayton and below the Island Mill. In 1865 the New Ophir Mill was listed as being owned by the Ophir Mining Co. of Virginia City, as having 24 stamps and 15 pans, burning 4 cords of wood per week, employing 15 men, and reducing 35 tons of Yellow Jacket ore a day. It was built on the site of the Carson River Quartz Mill. In 1866 it was listed as being powered by steam and water, as using 2 1/2 cords of wood a day, and as having the same number of stamps and pans and same capacity as in 1865. The 1875 map of the survey of the Virginia & El Dorado Railroad shows an Old Ophir Mill located above the New Ophir Mill. In 1868 the New Ophir Mill was owned by William Sharon's Bank of California. It operated as a tailings mill from 1873-1883, at which time it was owned by Fair and Mackay (Comp, 1980; GHN, 1865, June 5, 3:2; Map of Survey of the Virginia & El Dorado Narrow Gauge Railroad, 1875; SMR, 1866, TE, 1868, Jan. 21, 1:2).

**Woodworth Mill:** Shown on Wheeler's 1876-77 map as situated on the northwest bank of the Carson River approximately one mile above Dayton. The 1869-70 *State Mineralogist's Report* reported it to be a 24-stamp mill with 12 pans, and in the early 1870s it was listed as having the same number of stamps and a 48-ton capacity (SMR, 1869-70, 15; 1871-72, 100; Wheeler, 1876-77, map).

**Sprouls Mill:** Small Carson River mill which was located above Dayton between the Barton & Co. and Carson River Quartz mills. In Kelly's 1862 directory it was listed as Sproul & Co.'s Excelsior Mill and reported to have 10 stamps and 20 Hungarian pans, to employ 15 men, and to process ore from the proprietors' Gold Hill claim. The proprietors were J.R. Sproul, C.C. Goodwin, Levi Hite, and J.R. Brett. The mill and dam cost approximately \$5,000 (Bancroft, 1862, map; Kelly, 1862, 218).

**Birdsall & Carpenter Mill:** Dayton mill reported in 1865 to have 20 stamps and 10 pans, to burn 1 cord of wood a day, to reduce 30 tons a day, and to employ 10 men. In the 1866 *State Mineralogist's Report* it was listed as a water-powered mill using 2 cords of wood a day and having 30 stamps, 20 Wheeler pans, and a capacity of 55 tons a day. In the 1869-70 *State Mineralogist's Report* it was reported to have 30 stamps and 40 pans, and in the early 1870s it had been converted to a tailings mill with a capacity of 300 tons per day. The buildings were torn down in the early 1900s (Comp, 1980; GHN, 1865, June 5, 3:2; SMR, 1866, 149; 1869-70, 14; 1871-72, 100).

**Sutro Mill:** When Adolph Sutro, later of Sutro Tunnel fame, first settled on the Comstock, he operated this mill, which was located slightly below Dayton between the Solomon Davis and Old Dayton mills. It was erected in 1861 and was one of the early mills in the area. Kelly's 1862 directory reported it to have 10 stamps and a 12-ton-a-day capacity and to employ 10 men. At that time it was processing ore from the Gould & Curry Mine in Virginia City. The mill burned in 1863, and it was rumored that the fire had been deliberately set in order to collect the insurance. An account in the *Territorial Enterprise* in 1874 relates that Sutro never was indicted for arson in Lyon County even though there was a Grand Jury investigation at the time. One man died in the fire, and the property was

**Copper**—One vein 200' wide was stopped for 100'.

**Quartz Mills**

There are 20 quartz mills in this county, which have been in constant operation during the year, developed by working over from the Oquirrh ridge in Paria county, some of which number work batteries and equipments taken from the waste of Gold Canyon. Recently, owing to the scarcity of ore, a number of these mills have shut down. These mills are all located in about Dayton, on Oquirrh river, and on Gold Canyon. There are some of the finest and most complete mills in this county, embracing all of the modern improvements in use, among which are the following: The Imperial Silver Mining Company's mill, situated north of Dayton, on Carson river; also, Carpenter & Birdsell's mill, situated immediately south of Dayton, propelled by water, consisting of 20 stamps, with all the modern improvements in the way of pans, etc., being decidedly the best power and mill seat in the county; also, the Joseph French mill in Silver City, and many other mills, will compare with any in the State, etc. A list hereto attached will give the motive power, number of stamps, capacity, value, names of owners, etc., of each mill:

**A LIST OF ALL THE MILLS IN THE COUNTY.**

Birdsell & Carpenter, Birdsell & Carpenter proprietors; Carson river south of Dayton; assessed value, \$120,000; water power; 20 stamps; 12 pans.

Dayton mills; Winters, Robinson & Co.; Carson river south of Dayton; assessed value, \$60,000; steam power; 15 stamps; 10 pans.

Dayton mills; Winters, Robinson & Co.; Carson river south of Dayton; assessed value, \$15,000; water power; 15 stamps; 10 pans.

Ophir; Bank of California; Carson river south of Dayton; assessed value, \$60,000; water power; 20 stamps; 8 pans.

Franklin; Bank of California; Carson river south of Dayton; assessed value, \$45,000; water power; 10 stamps; 5 pans.

Island; Bank of California; Carson river south of Dayton; assessed value, \$25,000; water power; 10 stamps; 6 pans.

Hurd's; Hurd, Ball & Co.; Carson river south of Dayton; assessed value, \$40,000; water power; 10 stamps; 8 pans.

Daney; Bank of California; Carson river south of Dayton; assessed value, \$40,000; steam power; 15 stamps; 8 pans.

Mineral Rapids; John Rule & Co.; Carson river; Dayton; assessed value, \$18,000; steam power; 10 stamps; 16 pans.

Illinois; Bank of California; Carson river; Dayton; assessed value, \$20,000; steam power; 10 stamps; 5 pans.

Rock Point; Imperial S. M. Co.; Carson river south of Dayton; assessed value, \$200,000; steam power; 50 stamps; 22 pans.

Keystone; McClinn & Co.; Gold Canyon west of Dayton; assessed value, \$3,000; steam power; 5 stamps; 6 pans.

Weston's; Weston & Co.; Gold Canyon west of Dayton; assessed value, \$29,000; steam power; 10 stamps; 5 pans.

Weston's; Weston & Co.; Gold Canyon west of Dayton; assessed value, \$1,000; water power; 10 stamps; 6 pans.

Atlanta; Kouman & Co.; Gold Canyon west of Dayton; assessed value, \$5,000; steam power; 15 stamps; 4 pans.

Recramento; J. W. L. Hunt & Co.; Gold Canyon west of Dayton; assessed value, \$20,000; steam power; 12 stamps; 3 pans.

Excelsior; John Briggs; Gold Canyon west of Dayton; assessed value, \$18,000; steam power; 10 stamps; 10 pans.

Swansea; Bank of California; Gold Canyon west of Dayton; assessed value, \$20,000; steam power; 18 stamps; 12 pans.

Phoenix No. 1; Bank of California; Gold Canyon west of Dayton; assessed value, \$25,000; steam power; 10 stamps; 5 pans.

Eastern Slope; Simpson & Co.; Gold Canyon west of Dayton; assessed value, \$10,000; steam power; 15 stamps; 10 pans.

Metallurgical Works; New York Co.; Gold Canyon west of Dayton; assessed value, \$4,000; steam power; 15 stamps; 5 pans.

Total number of acres  
Total number of acres  
Total number of acres  
Total number of acres  
Total number of acres  
Hay crops  
Grain, bushels  
Wheat, bushels  
Barley, bushels  
Oats, bushels  
Indian corn (shelled)  
Potatoes, bushels  
Respectfully,  
Yours truly,  
J. E.  
1721/1868 N.  
Belmont

Hon. S. H. Martin

Sir: Since the date  
this county has been  
by the creation out  
Notwithstanding that  
resources have made  
past year, owing to  
means in the central  
county. Many new  
and large and valuable  
opened.

Our assessment for  
\$1,000,000 22 being  
of last year, the tax  
levy being \$2 90, in  
cents on each \$100.

The tax derived from  
is as follows:

Quarter ending	No. Taxes
Dec. 31, 1867	2,065
March 31, 1867	1,814
June 31, 1867	1,767
Sept. 31, 1867	1,576

This tax creates more  
mill owners and  
unequally and unjust  
section, where the con-  
cining the ore is so much  
and the western part  
tion the law was made  
here is frequently com-  
cent tax upon the ore  
some instances taxes  
are an actual loss.

Upon an estimate of  
upon ores for the last  
find there were reduced  
extracting and reduced  
is 350 per ton in gold  
\$78,801, deducted from  
51, leaves \$62,243 51 and  
which, reduced to cur-  
dollar, is \$82,991 34, un-  
of \$4,106 90 in current  
cent upon the true value  
mines. This is very o-  
upon the miner, and it  
will tend greatly to dis-  
but the most productive  
be able to pay it.

I have collected \$725  
the year, and will prob-  
I send you inclosed a  
quartz mills in the o-  
best sources at my com-  
and superintendents' re-  
and also, and in most  
return the blacks left v-  
There are seven stoves  
with a capacity of from  
per diem. The value  
to \$80 per M. at the mill  
An excellent quality of  
product is made in the val-  
of \$15 per M.-

L.A.  
I estimate there were  
land cultivated this season

# BIENNIAL REPORT OF THE STATE MINERLOGIST

## LYON NEVADA COUNTY—1875.

1875-1876

NAME OF MINE OR OWNER.	FIRST QUARTER.			SECOND QUARTER.		
	Tons .....	Pounds...	Gross value.	Tons .....	Pounds...	Gross value.
Cromer .....				100		\$800 00
Dayton G. & S. Mining Company.	1,200		\$20,599 83			
Santiago .....	300		3,300 00			
Silver City Mining Company .....						
<i>Tailings.</i>						
Dorwin, G. W. ....				82		1,640 00
Excelsior Mill .....	73		1,360 72	440		2,819 23
French & Co. ....				40		308 00
Humphery, D. W. ....				100		1,650 00
Hearne, M. A. ....				88		785 00
Hayes, Louis. ....	20		288 75	38		132 20
Keystone Mill .....	200		1,873 61	200		1,800 00
Lyon M. & M. Co. ....	11,708		40,460 52	14,260		45,313 62
Eureka Mill .....						
Kelsey Mill .....						
Woodworth Mill .....						
Totals .....	13,511		\$67,883 43	15,548		\$55,248 05

THIRD QUARTER.			FOURTH QUARTER.			TOTALS.		
Tons .....	Pounds...	Gross value.	Tons .....	Pounds...	Gross value.	Tons .....	Pounds...	Gross value.
						100		\$800 00
						1,200		20,599 83
						300		3,300 00
			46		\$1,426 00	46		1,426 00
116		\$1,508 00	170		2,550 00	368		5,698 00
984		4,318 22	300		1,263 00	1,797		9,761 17
201		3,216 00	150		1,200 00	391		4,724 00
300		4,200 00	50		750 00	450		6,600 00
35		469 00				123		1,254 00
40		160 00	13		135 00	121		715 95
						400		3,673 61
11,049		40,897 83	12,491		47,245 68	49,508		173,917 65
2,500		36,000 00	1,500		21,215 16	4,000		57,215 16
1,000		4,000 00				1,000		4,000 00
4,000		40,000 00	4,000		40,000 00	8,000		80,000 00
20,225		\$134,769 05	18,810		\$115,784 84	67,804		\$373,685 37

WOODWORTH  
NO LISTING FOR 1876 BUT  
YES FOR 1877

BIENNIAL REPORT OF THE STATE MINEROLOGIST  
LYON COUNTY-1877. NEVADA 1877-1878

Name of Mine or Owner.	FIRST QUARTER.			SECOND QUARTER.		
	Tons.	Pounds.	Gross Value.	Tons.	Pounds.	Gross Value.
<i>Tailings.</i>						
/ Buckeye .....	754		\$ 4,966 21	61		\$ 2,501 00
/ William McLaughlin .....						
/ Atlanta Mill .....						
/ Bacon Mill .....						
/ Excelsior Mill .....						
/ Lyon M. and M. Co. ....						
/ French Mill .....						
/ Union M. and M. Co. ....						
/ Woodworth Mill .....						
Others .....	1,657	1,000	21,651 60	20,525		135,084 84
Totals .....	2,411	1,000	\$26,617 81	20,586	.....	\$137,583 84

NYE

Name of Mine or Owner.	FIRST QUARTER.			SECOND QUARTER.		
	Tons.	Pounds.	Gross Value.	Tons.	Pounds.	Gross Value.
Adriatic.....		1,457	\$ 53 82			
Dominion.....	5	1,109	1,174 26			
Gila.....	1	260	108 29			
Gladiator.....	3	1,146	535 14			
Highbridge.....	4	978	1,080 03			
Illinois.....	88		4,400 00	185	671	\$ 25,842 83
Last Chance.....	77		2,310 00			
McCleary, A. M.....	5	182	287 91			
Pasqual, Felix.....	1	1,474	678 29			
Purcell, M.....		529	52 98			
Squire, S. H.....	1	200	349 81			
Tybo Con.....	5,705		174,081 43			
West Side.....	2	622	67 55			
E. P. Sure.....					569	204 10
Gilco.....				13	1,322	4,066 90
Q. G. & Bunker Hill.....				7,350		238,591 22
Storm King.....				324		15,903 95
Clipper.....						
North San Pedro.....						
Stonewall.....						
Other mines.....						
Tailings.....	720		14,877 84			
Totals.....	6,615	1,957	\$200,057 35	7,873	562	\$284,609 00

THIRD QUARTER.			FOURTH QUARTER.			TOTALS.		
Tons.	Pounds.	Gross Value.	Tons.	Pounds.	Gross Value.	Tons.	Pounds.	Gross Value.
						754		\$ 4,966 21
						61		2,501 00
5,000		\$38,052 62				5,000		38,052 62
245		7,217 37	400		\$ 8,905 87	645		16,123 24
3,317		25,425 84	1,252		6,781 13	4,569		32,206 97
8,911		33,567 00	10,247		42,114 54	19,158		75,681 54
645		14,459 22	518		12,876 81	1,163		27,336 03
			3,500		35,074 44	3,500		35,074 44
336		3,483 44	1,697		13,854 88	2,033		17,338 32
						22,182	1,000	156,736 44
18,454		\$122,205 49	17,614		\$119,607 07	59,065	1,000	\$406,016 81

COUNTY—1877.

THIRD QUARTER.			FOURTH QUARTER.			TOTALS.		
Tons.	Pounds.	Gross Value.	Tons.	Pounds.	Gross Value.	Tons.	Pounds.	Gross Value.
							1,457	\$ 53 82
						5	1,109	1,174 26
9	455	\$ 1,839 00	367	1,570	\$28,935 22	378	285	30,882 51
						3	1,146	535 14
3	545	2,104 11				7	1,523	3,184 14
180	600	23,009 87	83	400	9,291 74	536	1,671	62,544 44
						77		2,310 00
						5	182	287 91
						1	1,474	678 29
							529	52 98
						1	200	319 81
			5,457		105,147 61	11,162		279,229 04
						2	622	67 55
							569	204 10
						13	1,322	4,066 90
4,029		124,684 20				11,379		363,275 42
324	97	22,267 06	311	1,998	18,688 80	960	95	38,175 01
51		1,701 76	55	1	2,417 12	106	1	4,118 88
			52		3,016 00	52		3,016 00
			78	1,630	4,991 35	78	1,630	4,991 35
			28	348	3,080 11	28	348	3,080 11
105		1,793 03	272		4,950 40	377		6,743 43
4,701	1,697	\$177,399 03	6,705	1,947	\$180,518 35	25,897	163	\$842,583 73

**WAGES PAID.**—The wages for mill employes range from \$2 to \$5 for twelve-hour shifts, and seem to be in proportion to the wages paid miners in the district where the works are situated. As a rule, mill employes receive about 10 per cent, more than miners, the difference in the length of their shifts (which for mill hands is almost invariably twelve hours) entitling them to more pay. In one or two districts mill hands were paid less than miners, however. Chinese are employed to some extent, and receive from \$1 to \$2. They work generally as laborers. Foremen are paid from \$4 to \$10 per day. The scale of wages paid in the Comstock mills is appended:

TABLE CI.—RATE OF WAGES OF DIFFERENT CLASSES OF EMPLOYÉS IN THE COMSTOCK MILLS.

Class.	Wages per shift.
Agitator men	\$3 50
Amalgamators	4 00
Blacksmiths	5 00
Blanket sweepers	3 00 to 3 50
Carpenters	5 00 to 6 00
Chargers	3 50 to 4 00
Driers	4 00
Engineers	5 00 to 7 00
Feeders	3 00 to 4 00
Firemen	4 00
Foremen	5 00 to 6 00
Laborers	3 00 to 4 00
Masons	6 00
Oilers	3 50 to 4 00
Panmen	4 50 to 5 00
Retorters	3 50 to 4 00
Refiners	4 00 to 4 50
Tankmen	3 50 to 4 00
Teamsters	3 50
Watchmen	3 50 to 4 00
Woodmen	3 50

Illustrative tables are appended, showing the classification of the employes in the Comstock mills according to occupation and nationality. Of the 339 men whose nationality is recorded, 8 are classed with the staff and are omitted from the table of occupations.

TABLE CII.—NUMBER OF MEN OF DIFFERENT CLASSES EMPLOYED IN THE PRINCIPAL COMSTOCK MILLS, EXCLUSIVE OF STAFF: 1880.

MILL.	Number of men employed.	Amalgamators.	Acid makers.	Battery feeders.	Blacksmiths.	Blanket sweepers.	Bluestone makers.	Bullion refiners.	Carpenters.	Cooks and waiters.	Engineers.	Firemen.	Foremen.	Laborers.	Lead burners.	Machinists.	Metal roasters.	Millwrights.	Oilers.	Retorters.	Tankmen.	Teamsters.	Watchmen.
Total	331	27	2	3	10	17	1	3	5	5	22	6	5	140	1	3	5	1	7	3	50	9	6
Brunswick	40	4			2	4			1					9					2	2	14	1	1
California	72	7			1	8			1		4	3	3	33		2			2		6		2
Excelsior	12										1	2	1	8									
Franklin	15	2			2	2			1		2			8									
Lyon	46		2											8									
Mariposa	18	3			1		1			3		3	1	23	1		5				6		
Morgan	33	2			2	1			1		3			7		1					4		
Omega	12										3			9					3	1	10	1	
Scorpion G. and S. M. Co. (b)	26	4		3		2		3						7									2
Trench	26	3			1					1	5			7				1			2	1	
Woodworth	31	2			1				1		2			4							14		1

<sup>a</sup> In addition to the number of men here classified there were employed at other mills, which were either idle or running but a short time, 66 men, as watchmen, laborers, etc. The total amount paid as wages during the census year by the Comstock mills was \$372,767 10.

<sup>b</sup> Includes Boston and Douglas mills.



# AMALGAMATING MILLS.

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TABLE CIII.—NATIONALITY OF MEN EMPLOYED IN THE PRINCIPAL COMSTOCK MILLS, INCLUDING STAFF: 1880.

Mill.	Number employed	Americans	Azores islands.	Belgians	Canadians	Channel islands.	Chinese	Danes	English	French	Germans	Irish	Italians	Newfoundland	Norwegians	Nova Scotians	Portuguese	Russians	Scotch	Slavonians	Swedes	Swiss	Welsh
Total	339	115	1	1	86	1	29	12	13	1	16	77	2	2	2	4	10	1	5	2	5	3	1
Brunswick	41	17			7			1	2		2	10								2			
California	72	20		1	5				2		5	28	1			1	2	1	2		2	2	
Excelsior	12	3			2		1				2	2					2						
Franklin	16	7			1			3		1	1	2						1					
Lyon	48	17	1		5	1	14		3		1	3			1		2						
Mariposa	18	6			3			2			2	4				1							
Morgan	34	5			2			5	4		3	8			1	1			2		2	1	
Omega	13	3			5							4											1
Scorpion G. and S. M. Co. (a)	26	14					1					5				1	4				1		
French	27	10			5				1			9		2									
Woodworth	32	13			1		13	1	1			2	1										

a Includes Boston and Douglas mills.

RELATION OF LABOR TO PRODUCT.—An analysis of the results reached in 160 mills shows that for every ton of ore crushed the labor of one man for 3.9 hours, costing \$1 34, is required. For the separate establishments the range is very great, depending upon the character of the ore and the treatment and upon the efficiency of the machinery, while wide variations are found in the averages for the different states and territories. The most economical process in point of labor, as in other details, is the treatment of free-milling gold ores by large wet-crushing mills; the most expensive, that of reducing base silver ores, which require chloridizing-roasting as a preliminary to pan amalgamation. Dakota, where the ores worked are exclusively of gold, and California and Oregon, where such ores largely predominate, are therefore the localities where the greatest saving in labor is effected; while Arizona, Nevada, and Montana show a much greater expenditure of labor, as would be expected, in view of the character of their ores. In Colorado and Idaho the different classes of mills are nearly balanced, and the labor employed in crushing a ton of ore closely approximates the average for the whole country. It should be observed that while in tonnage the gold mills take the lead, the silver mills treat ore of a higher grade, so that a comparison based upon the bullion product would show somewhat different results.

To produce a dollar in gold bullion costs 8 cents for mill labor in Dakota; in Nevada, though over five times as much work is required per ton treated, the cost for mill labor per dollar of silver bullion produced is 7 cents, or practically the same proportion. The following table shows the average number of hours' work and cost of labor per ton of ore crushed in the principal mining states and territories, and is based on the treatment of nearly a million and a half tons:

TABLE CIV.—AMOUNT AND COST OF LABOR IN AMALGAMATING MILLS.

State or territory.	Number of mills.	Tons treated.	Total number of men employed.	Foremen.	Amalgamators.	Day laborers.	Other workmen.	Total number of hours' work done during the year.	Total sum paid on labor account, exclusive of staff.	Average number of hours per ton crushed.	Average amount paid for labor per ton crushed.
Total	160	1,467,478.75	2,046	101	302	657	986	5,745,785	\$1,973,906 00	3.915	\$1.345
Arizona	11	15,946.40	137	3	23	64	47	200,340	71,717 00	12.563	4.497
California	33	419,883.50	301	13	76	147	65	1,078,742	291,577 60	2.569	0.694
Colorado	28	140,117.35	197	23	22	57	95	579,574	140,024 00	4.137	1.042
Dakota	22	506,238.00	259	13	35	147	64	825,001	251,759 00	1.629	0.497
Idaho	7	16,391.25	59	1	8	9	41	70,128	22,017 00	4.278	1.343
Montana	13	47,801.00	144	9	17	62	56	373,740	191,609 00	7.819	4.008
Nevada	33	237,604.75	742	34	96	147	465	2,003,813	739,149 00	8.686	3.111
Oregon	5	12,437.00	27	2	6	14	5	41,684	10,250 00	3.352	0.824
Utah	8	71,059.50	180	3	19	10	148	512,757	249,804 00	7.216	3.515